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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT EP-W-05-042

21 August 2013
20114-081-998-0850-49
DC No. A-6833

Ms. Martha Bosworth
U.S. EPA Region I - New England
Emergency Planning & Response Branch
5 Post Office Square, Suite 100
Mail Code OSRR07-2
Boston, Massachusetts 02109-3912

Subject: Case No. 43395; SDG No. A4B16
ChemTech Consulting Group (Chem)
Jard Company Inc
Bennington, Vermont
AROCOLOR: 18/Soil/A4B81-A4B98
(Field Duplicates A4B88/A4B89)
6/Aqueous Equipment Blanks/A4B16, A4B54, *A4B12-A4B15*
2/Soil PEs/A4B99, A4C00
CERCLIS No. VTD048141741
TDD No. 12-10-0008, Task No. 0850-49

Dear Ms. Bosworth:

A Tier II validation was performed on the organic analytical data for 18 soil samples and six aqueous equipment (rinstate) blanks collected by WESTON START at the Jard Company Inc site in Bennington, Vermont, and for two PE samples obtained from EPA Region I. *Italicized sample ID numbers in the list above are associated with samples in this SDG, but reported in another SDG.* The samples were analyzed under CLP following SOW SOM01.2 as low/medium level for Aroclor compounds. The data were evaluated as Tier II level in accordance with the "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996, and the USEPA CLP National Functional Guidelines for Superfund Organic Methods, and were based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues.
- * • Data Completeness.
- * • Preservation and Technical Holding Times.
- * • GC/MS and GC/ECD Instrument Performance Checks.
- IC and CC.
- * • Blanks.
- Surrogate Compounds.
- NA • IS.
- * • MS/MSD.
- * • Field Duplicates.
- NA • Sensitivity Check (MDL Study or LFB).

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- * • PE Samples/Accuracy Check.
- * • Target Compound Identification.
- * • Sample Quantitation and Reported Quantitation Limits.
- NA • TICs.
- * • SVOC and PEST/PCB Cleanup.
- * • System Performance.
- NA • SEDD/ADR.

* = No qualifications will be applied based on this parameter.

Table I summarizes overall evaluation of the data with reference to the DQO and potential usability issues. Qualified data are summarized in Data Summary Tables 1 and 2.

Overall Evaluation of Data and Potential Usability Issues

See Table I for overall evaluation of data and potential usability issues.

Initial and Continuing Calibration

Compounds that did not meet RSD criteria in the IC, %D criteria in the CC, and/or RRF criteria in the IC or CC are summarized in the following table:

AROCLORS:

Compound	CV 4/24/13
Aroclor-1016 (peak 1)	✕ (2)
Samples Affected:	A4B16, A4B54

Actions:

- ✕ = %RSD > 20 or %D > 15. Estimate (J) all positive results.
- (1) = Criteria failed on Column No. 1.
- (2) = Criteria failed on Column No. 2.

Sample results will be qualified as indicated above.

Surrogate Compounds

AROCLORS:

Samples in which two or more Aroclor surrogate recoveries did not meet criteria are summarized in the following table:

Sample No.	No. of Surrogates Out	Action Pos/ND
A4B91	1	A/A

Sample results will be qualified as indicated above.

PE Samples/Accuracy Check

The criteria used by START for qualification of sample data based on the PE sample results are as follows:

PE Score	Action	
	Non-Detects	Positive Results
In Window	Accept	Accept
Warning Low/High	Accept	Accept
Action Low	Reject (R)	Estimate (J)
Action High	Accept	Estimate (J)
TCL Misses	Reject (R)	Varies
TCL Contaminants	Accept	Varies
TIC Misses	Varies	Varies
TIC Contaminants	Varies	Varies

All non-compliant PE scores were investigated by checking raw data, calculations, calibrations, possible matrix interferences, and blank contamination. Unless otherwise noted, all results reported by the laboratory were found to be correct, based on the data generated by the laboratory.

The laboratory properly identified and quantified the soil Aroclor-1242 PE sample (A4B99, PE No. ASX0181). No qualifications were applied.

The laboratory properly identified and quantified the soil Aroclor-1260 PE sample (A4C00, PE No. AS1508). No qualifications were applied.

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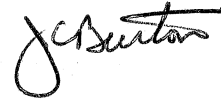
Please contact the undersigned at (978) 552-2100 if you have any questions or need further information.

Very truly yours,

WESTON SOLUTIONS, INC.
Region I START



William W. Mahany
Principal Project Scientist



John Burton
Lead Chemist

email cc: Jennifer Feranda (CLP PO - Region II) - DV Letter w/Data Tables, and ORDA Form only –
Feranda.jennifer@epa.gov

Attachments: Table I: Overall Evaluation of Soil Data
Data Summary Key
Acronym List
Data Summary Tables 1 and 2
DV Worksheets
PE Sample Score Reports (included in DV worksheets)
Field Sampling Notes (including a copy of sampler's COC Records)
CSF Audit (DC-2 Form) - Evidence Audit Photocopy (Including CSF Receipt/Transfer Form)
DQO Summary Form

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TABLE I

JARD COMPANY INC
Case No. 43395; SDG No. A4B16

Overall Evaluation of Soil Data

AROCLORs					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		
1. To obtain sufficient data from surface and subsurface soil samples collected at the Jard Company site for PCB (Aroclor) analysis, to document potential source areas located on and off the property, and to document contamination in the soil and sediment associated with source areas located on the property.	<i>Analytical Method:</i> Yes, SOM01.2 <i>Sampling Method:</i> Yes, Hand Augers, and Stainless Steel Scoops.	Refer to qualifications in attached Data Summary Table 1.	Refer to qualifications in attached Data Summary Table 1.		None.

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

DATA SUMMARY KEY ORGANIC DATA VALIDATION

- J = The associated numerical value is an estimated quantity.
- R = The data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification. The R replaces the numerical value or SQL.
- U = The compound was analyzed for, but not detected. The associated numerical value is the SQL or the adjusted SQL.
- UJ = The compound was analyzed for, but not detected. The associated numerical value is the estimated SQL.
- EB = The compound was identified in an aqueous EB that was used to assess field contamination associated with soil/sediment samples.
- TB = The compound was identified in an aqueous TB that was used to assess field contamination associated with soil/sediment samples.
- BB = The compound was identified in an aqueous BB that was used to assess field contamination associated with soil/sediment samples.

ACRONYM LIST ORGANIC DATA VALIDATION

AQ	aqueous	SQL	Sample Quantitation Limit
AQ FB	aqueous field blank	S/S	soil/sediment
BB	Bottle Blank	S/S (m)	soil/sediment medium level
B/N	base/neutral compound	START	Superfund Technical Assessment and Response Team
°C	degrees Celsius	SVOC	semivolatile organic compound
CC	Continuing Calibration	SW	surface water
CCV	Continuing Calibration Verification	TB	Trip Blank
CLP	Contract Laboratory Program	TCL	Target Compound List
COC	Chain-of-Custody record	TDD	Technical Direction Document
COR	Contracting Officer Representative	TIC	Tentatively Identified Compound
CRQL	Contract Required Quantitation Limit	TR	Traffic Report
CSF	Complete SDG File	VOC	volatile organic compound
%D	percent difference	WESTON	Weston Solutions, Inc.
DAS	Delivery of Analytical Services		
DMC	Deuterated Monitoring Compound		
DQO	Data Quality Objective		
DV	Data Validation		
DW	drinking water		
EB	Equipment Blank		
EPA	Environmental Protection Agency		
GC/ECD	Gas Chromatograph/Electron Capture Detector		
GC/MS	Gas Chromatograph/Mass Spectrometry		
GW	groundwater		
IC	Initial Calibration		
IS	Internal Standard		
kg	kilogram		
L	liter		
LCS	Laboratory Control Sample		
LFB	Laboratory Fortified Blank		
MDL	Method Detection Limit		
µg	microgram		
MS	Matrix Spike		
MSD	Matrix Spike Duplicate		
NA	Not Applicable		
ND	non-detected result		
ng	nanogram		
NERL	New England Regional Laboratory		
OSC	On-Scene Coordinator		
ORDA	Organic Regional Data Assessment		
PAH	polynuclear aromatic hydrocarbon		
PCB	polychlorinated biphenyl compound		
PEST/PCB	pesticide/polychlorinated biphenyl compound		
PE	Performance Evaluation		
Pos	positive result		
QC	Quality Control		
%R	percent recovery		
RPD	Relative Percent Difference		
RRF	Relative Response Factor		
RSD	Relative Standard Deviation		
SDG	Sample Delivery Group		
SOW	Statement of Work		
HRS Reference #79			

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4B16
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4B81	A4B82	A4B83	A4B84	A4B85	A4B86	A4B87
SAMPLE LOCATION			P005-SS-06	P005-SS-06	P011-SS-07	P011-SS-04	P005-SS-02	P007-SS-01	P010-SS-04
STATION LOCATION			JCS-345	JCS-347	JCS-172	JCS-164	JCS-334	JCS-270	JCS-219
LABORATORY NUMBER			E1904-03	E1904-04	E1904-05	E1904-06	E1904-07	E1904-08	E1904-09
COMPOUND	MDL	CRQL							
Aroclor-1016	2.6	33	48 U	47 U	43 U	42 U	47 U	44 U	41 U
Aroclor-1221	7.8	33	48 U	47 U	43 U	42 U	47 U	44 U	41 U
Aroclor-1232	1.3	33	48 U	47 U	43 U	42 U	47 U	44 U	41 U
Aroclor-1242	6.2	33	63	47 U	43 U	42 U	60	44 U	41 U
Aroclor-1248	2.7	33	48 U	47 U	43 U	42 U	47 U	44 U	41 U
Aroclor-1254	3.2	33	48 U	47 U	43 U	42 U	47 U	44 U	41 U
Aroclor-1260	3.2	33	48 U	47 U	43 U	42 U	47 U	44 U	41 U
Aroclor-1262	14	33	48 U	47 U	43 U	42 U	47 U	44 U	41 U
Aroclor-1268	6.6	33	48 U	47 U	43 U	42 U	47 U	44 U	41 U
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED			4/11/2013	4/11/2013	4/9/2013	4/9/2013	4/11/2013	4/10/2013	4/10/2013
DATE EXTRACTED			4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013
DATE ANALYZED			4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013
SAMPLE WEIGHT (GRAMS)			30.09	30.07	30.06	30.04	30.05	30.07	30.03
% SOLID			69.1	70.0	76.9	79.5	69.9	74.1	81.3

NOTES: µg/Kg = micrograms per Kilogram
All results are reported on a Dry Weight Basis.
CRQL = Contract Required Quantitation Limit
MDL = Method Detection Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
R = Value is Rejected.
* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4B16
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4B88	A4B89	A4B90	A4B91	A4B92	A4B93	A4B94
SAMPLE LOCATION			P010-SS-03	P010-SS-21	P020-SS-04	P020-SS-03	P020-SS-07	P020-SS-07	P020-SS-08
STATION LOCATION			JCS-217	JCS-577	JCS-456	JCS-454	JCS-464	JCS-465	JCS-466
LABORATORY NUMBER			E1904-12	E1904-13	E1904-14	E1904-15	E1904-16	E1904-17	E1904-18
COMPOUND	MDL	CRQL							
Aroclor-1016	2.6	33	41 U	40 U	41 U	42 U	42 U	41 U	52 U
Aroclor-1221	7.8	33	41 U	40 U	41 U	42 U	42 U	41 U	52 U
Aroclor-1232	1.3	33	41 U	40 U	41 U	42 U	42 U	41 U	52 U
Aroclor-1242	6.2	33	39 J	40 U	41 U	42 U	42 U	41 U	52 U
Aroclor-1248	2.7	33	41 U	40 U	41 U	42 U	42 U	41 U	52 U
Aroclor-1254	3.2	33	41 U	40 U	41 U	42 U	42 U	41 U	52 U
Aroclor-1260	3.2	33	41 U	40 U	41 U	42 U	42 U	41 U	52 U
Aroclor-1262	14	33	41 U	40 U	41 U	42 U	42 U	41 U	52 U
Aroclor-1268	6.6	33	41 U	40 U	41 U	42 U	42 U	41 U	52 U
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED			4/10/2013	4/10/2013	4/15/2013	4/15/2013	4/15/2013	4/15/2013	4/12/2013
DATE EXTRACTED			4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013
DATE ANALYZED			4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013
SAMPLE WEIGHT (GRAMS)			30.07	30.05	30.09	30.1	30.04	30.08	30.05
% SOLID			80.6	82.3	81.1	78.5	78.9	79.6	62.9

NOTES: µg/Kg = micrograms per Kilogram
All results are reported on a Dry Weight Basis.
CRQL = Contract Required Quantitation Limit
MDL = Method Detection Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
R = Value is Rejected.
* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4B16
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4B95	A4B96	A4B97	A4B98			
SAMPLE LOCATION			P020-SS-01	P020-SS-10	P020-SS-01	P020-SS-09			
STATION LOCATION			JCS-449	JCS-473	JCS-450	JCS-471			
LABORATORY NUMBER			E1904-19	E1904-20	E1904-21	E1904-22			
COMPOUND	MDL	CRQL							
Aroclor-1016	2.6	33	62 U	42 U	46 U	38 U			
Aroclor-1221	7.8	33	62 U	42 U	46 U	38 U			
Aroclor-1232	1.3	33	62 U	42 U	46 U	38 U			
Aroclor-1242	6.2	33	62 U	42 U	46 U	38 U			
Aroclor-1248	2.7	33	62 U	42 U	46 U	38 U			
Aroclor-1254	3.2	33	62 U	42 U	46 U	38 U			
Aroclor-1260	3.2	33	62 U	42 U	46 U	38 U			
Aroclor-1262	14	33	62 U	42 U	46 U	38 U			
Aroclor-1268	6.6	33	62 U	42 U	46 U	38 U			
DILUTION FACTOR			1.0	1.0	1.0	1.0			
DATE SAMPLED			4/12/2013	4/15/2013	4/12/2013	4/15/2013			
DATE EXTRACTED			4/22/2013	4/22/2013	4/22/2013	4/22/2013			
DATE ANALYZED			4/23/2013	4/23/2013	4/23/2013	4/23/2013			
SAMPLE WEIGHT (GRAMS)			30.01	30.1	30.05	30.07			
% SOLID			53.5	78.1	72.2	86.7			

NOTES: µg/Kg = micrograms per Kilogram

All results are reported on a Dry Weight Basis.

CRQL = Contract Required Quantitation Limit

MDL = Method Detection Limit

U = Value is Non-Detected.

UJ = Value is Non-Detected, and Detection Limit is Estimated.

J = Value is Estimated.

R = Value is Rejected.

* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4B16
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 2
AROCOR AQUEOUS ANALYSIS
µg/L

COMPOUND	SAMPLE NUMBER		A4B16	A4B54				
	SAMPLE LOCATION		RB-44	RB-30				
	STATION LOCATION		JCW-027	JCW-028				
	LABORATORY NUMBER		E1904-01	E1904-02				
	MDL	CRQL						
Aroclor-1016	0.08	1.0	1.0 U	1.0 U				
Aroclor-1221	0.29	1.0	1.0 U	1.0 U				
Aroclor-1232	0.03	1.0	1.0 U	1.0 U				
Aroclor-1242	0.03	1.0	1.0 U	1.0 U				
Aroclor-1248	0.02	1.0	1.0 U	1.0 U				
Aroclor-1254	0.05	1.0	1.0 U	1.0 U				
Aroclor-1260	0.04	1.0	1.0 U	1.0 U				
Aroclor-1262	0.2	1.0	1.0 U	1.0 U				
Aroclor-1268	0.06	1.0	1.0 U	1.0 U				
DILUTION FACTOR			1.0	1.0				
DATE SAMPLED			4/15/2013	4/15/2013				
DATE EXTRACTED			4/19/2013	4/19/2013				
DATE ANALYZED			4/23/2013	4/23/2013				
SAMPLE VOLUME (mL)			1000	1000				

NOTES: µg/L = micrograms per Liter
MDL= Method Detection Limit
CRQL = Contract Required Quantitation Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
* = Reported value is from diluted analysis.
mL = milliLiter

REGION I, EPA-NE ORGANIC REGIONAL DATA ASSESSMENT (ORDA)*

Case No.: 43395

Site Name: JARD Company

SDG No.: A4B16

No. of Samples/Matrix: 18/Soil 2/AQFB

Lab Name: Chemtech Consulting

Validation Contract: WESTON

SOW#/Contract#: SOM01.2

Validator's Name: John Burton

EPA-NE DV Tier Level: Tier II

Date DP Rec'd by EPA-NE: 5/8/13

TPO/PO: **ACTION _____ FYI _____

DV Completion Date: 5/14/13

ANALYTICAL DATA QUALITY SUMMARY

1. Preservation and Contractual Holding Times:
2. GC/MS / GC/ECD Instrument Performance Check:
3. Initial Calibration:
4. Continuing Calibration:
5. Blanks:
6. DMCs or Surrogate Compounds:
7. Internal Standards:
8. Matrix Spike/Matrix Spike Duplicate:
9. Sensitivity Check:
10. PE samples - Accuracy Check:
11. Target Compound Identification:
12. Compound Quantitation and Reported QLs:
13. Tentatively Identified Compounds:
14. Semivolatile Cleanup/Pesticide/PCB Cleanup:
15. Data Completeness:
16. Overall Evaluation of Data:

The diagram illustrates the relative persistence of four classes of organic compounds in the environment, represented by four vertical paths:

- VOC (Volatile Organic Compounds):** Shown as a continuous vertical line with arrows at both ends, indicating high volatility and rapid degradation.
- SVOC (Semi-Volatile Organic Compounds):** Shown as a continuous vertical line with arrows at both ends, indicating moderate volatility and persistence.
- PEST (Pesticides):** Shown as a vertical line with arrows at both ends, but with a downward arrow pointing to "NA" (Not Applicable) at a lower level, indicating they are not persistent enough to be found in the environment.
- ARO (Aromatic Organic Compounds):** Shown as a vertical line with arrows at both ends, but with a downward arrow pointing to "NA" at a lower level, indicating they are not persistent enough to be found in the environment.

o = Data had no problems or were qualified due to minor contractual problems.

m = Data were qualified due to major contractual problems.

z = Data were rejected as unusable due to major contractual problems.

Action Items (z items):

Areas of Concern (m items):

Comments:

*This form assesses the analytical data quality in items of contractual compliance only. It does not assess sampling errors and/or non-contractual analytical issues that affect data quality.

** Check "ACTION" only if contractual defects resulted in reduced payment/data rejection recommendations.

Validator: *jl Buntz*

Date: 5/14/13

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name: ChemTech Consulting SOW #/Contract #: SOM01.2
Case No.: 43395 Sampling Dates: 4/9-4/15/13
SDG No.: A4B16 Shipping Dates: 4/17-4/18/13
No. of Samples/Matrix: _____ Date Rec'd by Lab: 4/18-4/19/13

Traffic Report Sample Nos: A4B16, A4B54, A4B81-A4B89, A4B90-A4B98

Trip Blank No.: NA
Equipment Blank No: A4B16, A4B54 (A4B12, A4B13, A4B14, A4B15, A4B16)
Field Duplicate Nos: A4B88, A4B89
PE Nos: A4B99, A4C00 from SDG?

The Region I, EPA - NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA - NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attached modified criteria from EPA approved QAPjP or amendment to the QAPjP).

A Tier II or a Tier III evaluation was used to validate the data. If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation:

The data were evaluated based upon the following parameters:

- Overall Evaluation of Data
- Data Completeness (CSF Audit - Tier I)
- Preservation and Technical Holding Times
- GC/MS and GC/ECD Instrument Performance Check
- Initial and Continuing Calibrations
- Blanks
- Surrogate Compounds
- Internal Standards
- Matrix Spike/Matrix Spike Duplicate
- Field Duplicates
- Sensitivity Check
- PE Samples/Accuracy Check
- Target Compound Identification
- Compound Quantitation and Reported Quantitation Limits
- TICs
- Semivolatile and Pesticide/PCB Cleanup
- System Performance

Region I Definitions and Qualifiers:

A - Acceptable Data

J - Numerical value associated with compound is an estimated quantity.

R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.

U - Compound not detected at that numerical sample quantitation limit.

UJ - The sample quantitation limit is an estimated quantity.

TB, EB - Compound detected in aqueous trip blank or aqueous equipment blank associated with soil/sediment samples.

Validator's Name: J. C. Banta Company Name: WESTON Phone Number: 978-552-2100
Date Validation Started: 5/18/13 Date Validation Completed: 5/14/13

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: There is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV Worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES
VOA/SV-II	GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)
VOA/SV-III	INITIAL CALIBRATION
VOA/SV-IV	CONTINUING CALIBRATION
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS
VOA-VI	VOA SURROGATE SPIKE RECOVERIES
SV-VI	SV SURROGATE SPIKE RECOVERIES
VOA/SV-VII	INTERNAL STANDARD PERFORMANCE
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK
VOA/SV-Pest/PCB-XI	ACCURACY CHECK/ PE SCORE SHEETS
VOA/SV-Pest/PCB-XII	TARGET COMPOUND IDENTIFICATION
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION
VOA/SV-XIV	TENTATIVELY IDENTIFIED COMPOUNDS
VOA/SV-XV	SEMIVOLATILE CLEANUP
TABLE II - WORKSHEET	OVERALL EVALUATION OF DATA

NA - Analyzers only

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NA

@

NA

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Pest/ARO Worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK- RESOLUTION
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK- RETENTION TIMES
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK- ACCURACY CHECK OF INITIAL CALIBRATION
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK- PESTICIDE DEGRADATION
Pest/PCB-III	INITIAL CALIBRATION
Pest/PCB-IV	CONTINUING CALIBRATION
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT
Pest/PCB-VII	PESTICIDE CLEANUP
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK
VOA/SV-Pest/PCB-XI	ACCURACY CHECK/ PE SCORE SHEETS
Pest/PCB-XII	COMPOUND IDENTIFICATION
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION
TABLE II - WORKSHEET	OVERALL EVALUATION OF DATA

@

NA

@

*

I certify that all criteria were met for the worksheets checked above.

@ - always included

* - See DV Memo

Signature: John Burta

Name: John Burta

Date: 5/14/13

COMPLETE SDG FILE (CSF) AUDIT

Organic Fractions: Case 43395 SDG A4B16

Missing Information

Date Lab ContactedDate Received

None

[illegible]

Validator: J. C. Banta

Date: 5/14/13

Sampler: Hornok Company: WESTON Contacted: Yes No Date: _____

1. PRESERVATION AND HOLDING TIMES

Circle sample numbers with exceeded technical holding times or omitted preservation.
List all required preservation codes and circle omitted preservation codes.
Circle all exceeded technical holding times.
Identify extraction technique after "# of Days"/>(*Extraction Code).

Cooler Temp: 5, 5° Documented: Page: 215, 216

Sample No. (TR No.)	Matrix	Pres. Code	Date Sampled	PEST						ARO					
				Date Extracted	# of Days from Samp. to Ext.	*Ext. Code	Date Analyzed	# of Days from Ext. to Anal.	Action	Date Extracted	# of Days from Samp. to Ext.	*Ext. Code	Date Analyzed	# of Days from Ext. to Anal.	Action
A4B81	S/S	1, 3	4/11/13							4/23/13	11	SOX	4/23/13	1	None
A4B82			↓								↓				
A4B83			4/4/13								13				
A4B84			↓								↓				
A4B85			4/11/13								11				
A4B86			4/10/13								12				
A4B87			↓								↓				
A4B88			↓								↓				
A4B89			↓								↓				
A4B90			4/5/13								7				
A4B91			↓								↓				
A4B92			↓								↓				
A4B93			4/2/13								10				
A4B94			↓								↓				
A4B95			4/15/13								7				
A4B96			4/12/13								10				
A4B97			4/15/13								7				
A4B98			↓								↓				
A4B16	AQ FB									4/19/13	4	SEP	4/23/13	4	None
A4B54			↓								↓				

Preservation Code:

1. Cool @ 4°C (± 2°C)
2. Preserve with HCl to ≤ pH 2.
3. Protect from light.
4. Freeze.
5. Room temperature (avoid excessive heat).
6. Encore sampler (48 hour hold time).

***Extraction Code:**

- L/L - Liquid/Liquid
SON - Sonication
SEP - Separatory funnel
SOX - Soxhlet
SPE - Solid Phase Extraction

Action Code:

- J - Estimate (J) detected values.
UJ - Estimate (UJ) non-detected values.
R - Reject (R) non-detected values.

Matrix Codes:

- AQ - Aqueous
S/S - Soil/Sediment
AQ FB - Aqueous Field Blank

Validator: [Signature]

Date: 5/9/13

Continuing Calibration - PEM, INDC

[illegible]

no qualification

Estimate (J) all positive results when the %D >25% Pest, or $\geq 15\%$ PCB. No qualification is required for non-detected results.

Presenta

Date: 5/9/13

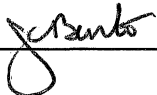
V. Rinsate Blank Tabulation - list the applicable rinsate (equipment) blanks below:

Rinsate Blank No.	Sample No.	Equipment Rinsed to Generate the RB	Matrix Applies to:
RB- 40	A4B12	Auger	SS
RB- 41	A4B13	Auger, Scoop	SS
RB- 42	A4B14	Auger, Scoop	↓
RB- 43	A4B15	Auger	
RB- 44	A4B16	Auger, Scoop	
RB-			

Matrix Codes: SS - surface soil
SD - sediment
SO - source soil
SB - soil boring
GW - groundwater
DW - drinking water
SW - surface water

Note: Apply each RB only to the matrix to which it corresponds. For example, apply the hand auger RB to the soil samples, but not to the surface water samples.

If more than one hand auger/soil sample RB was collected, the RBs may be batched and the highest hit from the batch used to determine the action levels. However, if one RB exhibits an unusual amount of contamination, apply this RB to only the associated samples. Do not batch this RB and apply to all samples of the same matrix.

Validator: 

Date: 5/14/13

Concentration Level: Low or Medium

Sampler: Hornok Company: WESTON Contacted: Yes No Date: _____

[illegible]

PEST/ARO Method Blanks: If %D is >100% (PEST) or >500% (ARO), then not a positive hit and therefore not a contaminant.
PEST Instrument Blanks: If not present on both columns, then not a positive and therefore not a contaminant.
Do not use blanks used to clean the instrument after a contaminated sample to set Action Levels.

Concentration Level: Low or Medium

Sampler: Hornok

Company: WESTON

Contacted:	Yes	No
------------	-----	----

Date:

2. Field: Equipment (Rinsate) and Trip Blanks.

[illegible]

Validator:

Date: 5/9/13

PEST/ARO Field Blanks: If %D is >100% (PEST) or >500% (ARO) then not a positive hit and therefore not a contaminant. Use the last column to evaluate laboratory blank contamination on EB and TB contamination. If result qualified as undetected (U) due to laboratory contamination, then this result can not be used to apply an EB or TB qualifier.

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/ARO - V- B1

V. BLANK ANALYSIS

3. Blank Actions:

Actions Apply to Aqueous (AQ) Samples

Compound	Blank with Max. Conc.	Date Blank Sampled/ Analyzed	Max. Conc. (ug/L)	Action Level (ug/L)	Sample QL (ug/L)	Samples Affected	Action
<i>N Detect</i>	Lab					AQ FB	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
	Lab					"	U
<i>N Detect</i>	Lab, Equip, or Trip*					AQ Field Samples	U
	Lab, Equip, or Trip*					(SW, GW,	U
	Lab, Equip, or Trip*					MW, DW, etc.)	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U
	Lab, Equip, or Trip*					"	U

* - Circle one

Applicable Lab Blanks Include:

MB - Method Blanks
 HB - Holding Blanks
 IB - Instrument Blanks
 SB - Storage Blanks
 CUB- Cleanup Blank

AQ FB Include:

Equip - Equipment Blank (rinstate)
 Trip - Trip Blank

AQ Field Samples Include:

SW - Surface Waters
 GW - Groundwaters
 MW - Monitoring Wells
 DW - Drinking Waters

Comments:

Validator:

J. C. Burton

Date:

5/9/13

3. Blank Actions:

Actions Apply to Soil/Sediment (S/S) or Solid Samples

Applicable Lab Blanks Include:

MB - Method Blanks
HB - Holding Blanks
IB - Instrument Blanks
SB - Storage Blanks
CUB- Cleanup Blank

FB Include:

Equip - Equipment Blank (rinsate)
Trip - Trip Blank
NaHSO₄ - Sodium Bisulfate
MeOH - Methanol

Comments:

Validator:

Date:

5/9/13

* - Circle one

* - Circle one

List the percent recoveries which do not meet the method QC acceptance criteria.

[illegible]

DCB - Decachlorobiphenyl

QC Limits:	30-150	30-150
------------	--------	--------

1. No action is taken when a sample is analyzed at a dilution.
2. No action is required when only one of the four surrogates is outside the QC acceptance criteria and the recovery is > 10%.
 1. Estimate (J, UJ) all positive and non-detected results if any two surrogates are < the QC acceptance criteria.
 2. Estimate (J) all positive results if any two surrogates are > the QC acceptance criteria.
 3. Reject (R) all non-detected results and estimate (J) all positive results if any one surrogate is < 10%.

Sample Results	One or more surrogates < 10%	Two or more surrogates 10% ≤ %R < LL	All surrogates LL ≤ %R ≤ UL	Two or more surrogates > UL
Detects	J	J	A	J
Non-detects	R	UJ	A	A

UL - Upper Limit

Validator:

Date: 5/9/13

XI. ACCURACY CHECK (Performance Evaluation Results) - List all analytes that are outside criteria.

Case: L/M

Are more than one-half the PE analytes within criteria for each parameter?

Yes

No

Always submit this sheet and attach PE score sheets

[illegible]

*For Region I PE indicate the Region I PE Score report result: Action High, Action Low, TCL Miss, or TCL Contaminant.

Validator:

J. C. Senter

Date:

59/13

PES SCORING EVALUATION REPORT

Rev: 1

Report Date: 05/13/2013

Page 1 of 1

Lab Code: CHEM

Case No.: 43395

SAS/Client No.: NA

Matrix: Soil

Lab Sample ID: E1924-01

Date Received: 04/19/2013

Date Extracted: 04/22/2013

Sample Wt./Vol. (g/mL): 30.1 g

% Moisture: 0.0

Extraction Type: SOXH

Conc. Extract Vol. (uL): 10000

GPC Cleanup: No

pH: NA

Dilution Factor: 1.0

Units: ug/Kg

Scoring Method: SOM01.2

Comments:

[illegible]

PES SCORING EVALUATION REPORT

Rev: 1 EPA Sample No.: A4C00

Page 1 of 1

Case No.: 43395
Matrix: Soil
Date Received: 04/19/2013
Wt./Vol. (g/mL): 30.0 g
Extraction Type: SOXH
GPC Cleanup: No
Dilution Factor: 1.0

Lab Code: CHEM
SAS/Client No.: NA
Lab Sample ID: E1924-02
Date Extracted: 04/22/2013
% Moisture: 0.0
Conc. Extract Vol. (uL): 10000
pH: NA
Units: ug/Kg

Analysis Method: SOM01.2
Scoring Method: SOM01.2
Comments:

[illegible]

EPA - NE - Data Validation Worksheet
VOA/SV - Pest/PCB - XIII

XIII. SAMPLE QUANTITATION

If no PE, do sample calculation.

Recalculate, from the raw data, the concentration for one positive detect and one reported sample quantitation limit (SQL) for a non-detect in a diluted sample or soil sample per fraction. (Note: Although Section XIII, C 2. a. requires that one calculation for each fraction in each sample be performed, the validator is only required to reproduce an example, for each fraction, of one positive detect and one SQL calculation on this worksheet.)

Fraction		Calculation*	
VOC		Detect:	Non-detect QL:
Sample No.:			
Reported Compound:			
Reported Value:			
Non-detected Compound:			
Reported Quantitation Limit:			
SVOC		Detect:	Non-detect QL:
Sample No.:			
Reported Compound:			
Reported Value:			
Non-detected Compound:			
Reported Quantitation Limit:			
P/PCB		Detect:	Non-detect QL:
Sample No.:	A4B81	$\frac{(58479)(10000)(1)(1)}{(959263)(1)(30.1)(.69)} = 29.3$ $\frac{(21056)(10000)(1)(1)}{(438453)(1)(30.1)(.69)} = 23.7$ $\frac{(43565)(10000)(1)(1)}{(336792)(1)(30.1)(.69)} = 136.2$ $29.3 + 23.7 + 136.2 = 189.2$ $189.2 / 3 = 63.1$	$33 \times \frac{(30g)(10000)(1)(1)}{(30.1)(10000)(.69)} = 47.7 \rightarrow 48 \checkmark$
Reported Compound:	1242		
Reported Value:	63		
Non-detected Compound:	1260		
Reported Quantitation Limit:	480		

* - NA for Tier II if PE score is OK.

Do all soil/sediment samples have % solids greater than 30%? ☒ Y ☐ N If solids <30%, have sample volumes been increased sufficiently to compensate? Y ☐ N

If no. list sample numbers _____

Validator: _____

Date: 5/9/13

- 1545 hrs: Soil/source sample SO-91A (Sample #: JCS-125) was collected with a hand auger at a depth of 0 to 10 inches from the northeastern corner of the Jard property and later submitted for PCB field screening analysis.
In addition, soil/source sample SB-10A (Sample #: JCS-154) was collected using a Geoprobe macrocore from a depth of 0.4 to 1.3 feet bgs from soil boring SB-10 and later submitted for PCB field screening analysis.
- 1600 hrs: START personnel completed soil boring activities at location SB-10. Soil boring SB-10 was completed to a depth of 2 feet bgs due to refusal. Team backfilled sample hole with sand and bentonite.
Soil/source sample SO-92A (Sample #: JCS-126) was collected with a hand auger at a depth of 0 to 8 inches from the northeastern corner of the Jard property and later submitted for PCB field screening analysis.
- 1615 hrs: Soil/source sample SO-93A (Sample #: JCS-127) was collected with a plastic scoop at a depth of 0 to 2 inches bgs from an area along the northeastern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.
- 1635 hrs: Equipment rinsate blank sample RB-06 (Sample #: JCW-020: CLP #: A4B09) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.
- 1640 hrs: Equipment rinsate blank sample RB-07 (Sample #: JCW-021: CLP #: A4B10) was collected from the Geoprobe macrocore system sampling equipment and is associated with soil/source sampling activities.
- 1700 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

9 April 2013 (Tuesday) – Soil/Source and Surface Soil Sampling

Weather: Cloudy, high 50 to low 60 °F

- 0700 hrs: START members Kelly, Hornok, Bitzas, Ackerman, Dupree, Robinson, Saylor, and Sharp arrived at the Jard property. EPA SAM Martha Bosworth had previously arrived on-site. In addition, Chemist Clifford also arrived on-site.
- 0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 0800 hrs: START members Kelly, Robinson, and Scesny began marking sample locations and documenting property features on the Park Street residential properties.
- 0810 hrs: Soil/source sample SO-95A (Sample #: JCS-185) was collected with a hand auger at a depth of 0 to 8 inches bgs from an area along the northwestern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.
- 0815 hrs: Soil/source sample SO-94A (Sample #: JCS-184) was collected with a hand auger at a depth of 0 to 12 inches bgs from an area along the northwestern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.

- 0830 hrs: Soil/source sample SO-96A (Sample #: JCS-186) was collected with a hand auger at a depth of 0 to 12 inches bgs from an area along the northern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.
In addition, soil/source sample SO-97A (Sample #: JCS-187) was collected with a hand auger at a depth of 0 to 18 inches bgs from an area along the northern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.
- 0840 hrs: Soil/source sample SO-97B (Sample #: JCS-188) was collected with a hand auger at a depth of 18 to 30 inches bgs from an area along the northern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.
- 0855 hrs: Soil/source sample SO-98A (Sample #: JCS-189) was collected with a hand auger at a depth of 0 to 12 inches bgs from an area along the northern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.
In addition, soil/source sample SO-99A (Sample #: JCS-190) was collected with a hand auger at a depth of 0 to 8 inches bgs from an area along the northern edge of the building footprint on the Jard property and later submitted for PCB field screening analysis.
- 1000 hrs: START members Kelly and Hornok met with Allen Watson at property P009 to discuss the drinking water supply well located in the basement of the residence on the property and former operations at the Jard property. Mr. Allen Watson verbally provided the following information during the discussion: The drinking water well, located in the basement of his mothers house, was used until recently to supply the residence and attached apartment with potable water. Drinking water samples collected by the VT DEC indicated elevated concentrations of PCBs in the well which prompted the state to order the well abandoned. A potable water supply line was extended to the residence, which is now supplied water from public drinking water supply sources. The former private drinking water supply well in the basement was observed by START personnel to be constructed with a 2.0 foot diameter terra cotta pipe extending approximately 3.0 feet BGS. According to Mr. Watson, the bottom of the dug well contained gravel. START personnel observed the gravel base. Based on measurements, START personnel noted approximately 15.5 inches of water was contained within the well.
Mr. Watson also provided the following information about operations at the Jard property: Mr. Watson worked at the facility from 1970 to 1974 providing maintenance support. Capacitors were manufactured at the plant. Most were sold to Fredor. Shielded pole motors were also manufactured and sold to General Electric. Capacitors that didn't pass inspection would be boxed up and sent to the town landfill for disposal. The PCB oil contained within the bad capacitors was not emptied or drummed prior to disposal. In addition, used oil would be containerized and brought to the Bennington Dump and Kocher Drive Dump where it would be dumped into pits. In addition, oil contaminated with water would be disposed of in the same manner. Also, water from an on-site well, located along the southeastern portion of the property, where the telephone poles and large pile currently exist, was used to cool the impregnator. This cooling included a closed loop system. However, on numerous occasions, gaskets would fail and oil would come in direct contact and mix with the water, which was disposed of in an on-site dry well also located in the southeastern portion of the property. Mr. Watson explained that one of his jobs was to replace the failed gaskets, so he observed and worked within the PCB oil/water mixture on several occasions. He recalled laying on his back, being covered with the oil/water mixture replacing the gaskets on numerous occasions.
- 1050 hrs: Surface soil sample P011-SS-02A (Sample #: JCS-158) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-02, located at the northern boundary of the property in the brush, and later submitted for PCB field screening analysis.

- 1100 hrs: Surface soil sample P011-SS-04A (Sample #: JCS-163) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-04, located in the center of the yard between the two gardens, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P011-SS-07A (Sample #: JCS-170) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-07, located in the northeast corner of the property (adjacent to the dog kennel), and later submitted for PCB field screening analysis.
- START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- 1105 hrs: Surface soil sample P011-SS-04B (Sample #: JCS-164) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-04 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P011 due to refusal.
- 1110 hrs: Surface soil sample P011-SS-02B (Sample #: JCS-159) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-02 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P011-SS-07B (Sample #: JCS-171) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1125 hrs: Surface soil sample P011-SS-07C (Sample #: JCS-172) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P011-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1135 hrs: Surface soil sample P011-SS-02C (Sample #: JCS-160) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P011-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1140 hrs: Surface soil sample P011-SS-05A (Sample #: JCS-165) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-05, located along the eastern boundary of the property, and later submitted for PCB field screening analysis.
- 1145 hrs: Surface soil sample P011-SS-05B (Sample #: JCS-166) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1150 hrs: Surface soil sample P011-SS-05C (Sample #: JCS-167) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P011-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1155 hrs: Surface soil sample P011-SS-09A (Sample #: JCS-176) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-09, located along the northern boundary of the property in the brush, and later submitted for PCB field screening analysis.
- 1200 hrs: Surface soil sample P011-SS-01A (Sample #: JCS-155) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-01, located to the northeast of the house in a low-lying area, and later submitted for PCB field screening analysis.
- 1210 hrs: Surface soil sample P011-SS-01B (Sample #: JCS-156) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-01 (see above) and later submitted for PCB field screening analysis.

- In addition, surface soil sample P011-SS-09B (Sample #: JCS-177) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1220 hrs: Surface soil sample P011-SS-01C (Sample #: JCS-157) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P011-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1225 hrs: Surface soil sample P011-SS-09C (Sample #: JCS-178) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P011-SS-09 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P011-SS-10A (Sample #: JCS-179) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-10, located directly adjacent to the standing water from the sump pump outfall, and later submitted for PCB field screening analysis.
- 1230 hrs: Surface soil sample P011-SS-08A (Sample #: JCS-173) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-08, located directly adjacent to the sump pump outfall pipe, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P011-SS-10B (Sample #: JCS-180) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1235 hrs: Surface soil sample P011-SS-10C (Sample #: JCS-181) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P011-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1240 hrs: Surface soil sample P011-SS-06A (Sample #: JCS-168) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-06, located in the northwest corner of the property directly adjacent to Park Street, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P011-SS-08B (Sample #: JCS-174) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1250 hrs: Surface soil sample P011-SS-08C (Sample #: JCS-175) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P011-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1255 hrs: Surface soil sample P011-SS-06B (Sample #: JCS-169) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-06 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P011-SS-06 due to refusal.
- 1300 hrs: Surface soil sample P011-SS-03A (Sample #: JCS-161) and surface soil sample field duplicate P011-SS-103A (Sample #: JCS-205) were collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P011 at surface soil sample location P011-SS-03, located along the brush at the western boundary of the property, and later submitted for PCB field screening analysis.
- 1310 hrs: Surface soil sample P011-SS-03B (Sample #: JCS-162) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P011-SS-03 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P011-SS-03 due to refusal.
- 1450 hrs: Surface soil sample P021-SS-03A (Sample #: JCS-196) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P021 at surface soil sample location P021-

SS-03, located at the eastern boundary of the property along Bowen Road, and later submitted for PCB field screening analysis.

In addition, surface soil sample P021-SS-05A (Sample #: JCS-202) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P021 at surface soil sample location P021-SS-05, located in the vegetable garden adjacent to the southwest corner of the house, and later submitted for PCB field screening analysis.

1455 hrs: Surface soil sample P021-SS-03B (Sample #: JCS-197) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P021-SS-03 (see above) and later submitted for PCB field screening analysis.

1500 hrs: Surface soil sample P021-SS-02A (Sample #: JCS-194) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P021 at surface soil sample location P021-SS-02, located along the northern boundary directly adjacent to the shed, and later submitted for PCB field screening analysis.

In addition, surface soil sample P021-SS-03C (Sample #: JCS-198) and surface soil sample field duplicate P021-SS-104C (Sample #: JCS-199) were collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P021-SS-03 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P021-SS-05B (Sample #: JCS-203) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P021-SS-05 (see above) and later submitted for PCB field screening analysis.

1505 hrs: Surface soil sample P021-SS-05C (Sample #: JCS-204) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P021-SS-05 (see above) and later submitted for PCB field screening analysis.

1510 hrs: Surface soil sample P021-SS-02B (Sample #: JCS-195) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P021-SS-02 (see above) and later submitted for PCB field screening analysis.

1520 hrs: Surface soil sample P021-SS-01A (Sample #: JCS-191) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P021 at surface soil sample location P021-SS-01, located at the southwest corner of the property, and later submitted for PCB field screening analysis.

1530 hrs: Surface soil sample P021-SS-01B (Sample #: JCS-192) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P021-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P021-SS-04A (Sample #: JCS-200) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P021 at surface soil sample location P021-SS-04, located at the northwest corner of the property, and later submitted for PCB field screening analysis.

1540 hrs: Surface soil sample P021-SS-01C (Sample #: JCS-193) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P021-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P021-SS-04B (Sample #: JCS-201) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P021-SS-04 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected from surface soil sample location P021-SS-04 due to refusal.

1545 hrs: Equipment rinsate blank sample RB-08 (Sample #: JCW-022; CLP #: A4B11) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.

START Team Member reviewed and turned in completed soil/sources data sheets for each sample location.

- 1550 hrs: Equipment rinsate blank sample RB-40 (Sample #: JCW-023; CLP #: A4B12) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.
- 1615 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

10 April 2013 (Wednesday) – Surface Soil Sampling

Weather: Showers, low to mid 50 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Ackerman, Dupree, Robinson, Saylor, and Sharp arrived at the Jard property. In addition, SAM Bosworth and Chemist Clifford also arrived on-site.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm. START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 0815 hrs: Sample aliquots for PCB field screening, collected to date between 8 April and 9 April, were transferred to EPA chemist Clifford for processing and PCB field screening analyses. START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- 0825 hrs: Surface soil sample P010-SS-02A (Sample #: JCS-211) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-02, located to the west of the garage, and later submitted for PCB field screening analysis.
- 0830 hrs: Surface soil sample P010-SS-09A (Sample #: JCS-232) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-09, located at the western edge of the yard, and later submitted for PCB field screening analysis.
- 0835 hrs: Surface soil sample P010-SS-02B (Sample #: JCS-212) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-02 (see above) and later submitted for PCB field screening analysis.
- 0840 hrs: Surface soil sample P010-SS-09B (Sample #: JCS-233) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-09 (see above) and later submitted for PCB field screening analysis.
- 0845 hrs: Surface soil sample P010-SS-02C (Sample #: JCS-213) and surface soil sample field duplicate P010-SS-105C (Sample #: JCS-214) were collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-02 (see above) and later submitted for PCB field screening analysis.
- 0850 hrs: Surface soil sample P010-SS-09C (Sample #: JCS-234) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-09 (see above) and later submitted for PCB field screening analysis.
- 0900 hrs: Surface soil sample P010-SS-03A (Sample #: JCS-215) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-

SS-03, located directly adjacent to the house on the south side, and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-10A (Sample #: JCS-235) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-10, located in the center of the backyard, and later submitted for PCB field screening analysis.

0905 hrs: Surface soil sample P010-SS-10B (Sample #: JCS-236) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-10 (see above) and later submitted for PCB field screening analysis.

0910 hrs: Surface soil sample P010-SS-03B (Sample #: JCS-216) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-03 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-10C (Sample #: JCS-237) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-10 (see above) and later submitted for PCB field screening analysis.

0915 hrs: Surface soil sample P010-SS-07A (Sample #: JCS-226) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-07, located near the western boundary of the property, and later submitted for PCB field screening analysis.

0920 hrs: Surface soil sample P010-SS-03C (Sample #: JCS-217) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-03 (see above) and later submitted for PCB field screening analysis.

0930 hrs: Surface soil sample P010-SS-04A (Sample #: JCS-218) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-04, located adjacent to surface soil sample location P010-SS-03, and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-07B (Sample #: JCS-227) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-07 (see above) and later submitted for PCB field screening analysis.

0935 hrs: Surface soil sample P010-SS-01A (Sample #: JCS-208) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-01, located directly adjacent to the porch at the southwest corner of the house, and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-04B (MS/MSD) (Sample #: JCS-219) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-04 (see above) and later submitted for PCB field screening analysis.

0940 hrs: Surface soil sample P010-SS-07C (Sample #: JCS-228) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P010-SS-07 (see above) and later submitted for PCB field screening analysis.

0945 hrs: Surface soil sample P010-SS-01B (Sample #: JCS-209) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-04C (Sample #: JCS-220) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P010-SS-04 (see above) and later submitted for PCB field screening analysis.

0955 hrs: Surface soil sample P010-SS-01C (Sample #: JCS-210) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-01 (see above) and later submitted for PCB field screening analysis.

- 1000 hrs: Surface soil sample P010-SS-08A (Sample #: JCS-229) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-08, located at the northwest corner of the property, and later submitted for PCB field screening analysis.
In addition, equipment rinsate blank sample RB-41 (Sample #: JCW-024; CLP #: A4B13) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.
- 1005 hrs: Surface soil sample P010-SS-05A (Sample #: JCS-221) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-05, located directly adjacent to the shed at the southwest corner of the yard, and later submitted for PCB field screening analysis.
In addition, surface soil sample P010-SS-08B (Sample #: JCS-230) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1015 hrs: Surface soil sample P010-SS-05B (Sample #: JCS-222) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1020 hrs: Surface soil sample P010-SS-08C (Sample #: JCS-231) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1040 hrs: Surface soil sample P010-SS-06A (Sample #: JCS-223) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-06, located in a pile to the west of surface soil sample location P010-SS-05, and later submitted for PCB field screening analysis.
- 1045 hrs: Surface soil sample P009-SS-07A (Sample #: JCS-254) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-07, located at the southwest corner of the property in the brush/wooded area, and later submitted for PCB field screening analysis.
- 1050 hrs: Surface soil sample P010-SS-06B (Sample #: JCS-224) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-06 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P009-SS-07B (Sample #: JCS-255) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1055 hrs: Surface soil sample P009-SS-11A (Sample #: JCS-266) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-11, located along the western boundary in an area of high contamination from previous sampling rounds, and later submitted for PCB field screening analysis.
- 1100 hrs: Surface soil sample P010-SS-06C (Sample #: JCS-225) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-06 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P009-SS-07C (Sample #: JCS-256) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1115 hrs: Surface soil sample P009-SS-10A (Sample #: JCS-263) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-10, located along the northern boundary of the property adjacent to the property marker, and later submitted for PCB field screening analysis.

In addition, surface soil sample P009-SS-11B (Sample #: JCS-267) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-11 (see above) and later submitted for PCB field screening analysis.

1120 hrs: Surface soil sample P009-SS-10B (Sample #: JCS-264) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-10 (see above) and later submitted for PCB field screening analysis.

1125 hrs: Surface soil sample P009-SS-11C (Sample #: JCS-268) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-11 (see above) and later submitted for PCB field screening analysis.

1130 hrs: Surface soil sample P009-SS-10C (Sample #: JCS-265) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-10 (see above) and later submitted for PCB field screening analysis.

1255 hrs: Surface soil sample P009-SS-01A (Sample #: JCS-238) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-01, located directly adjacent to the paved driveway and the southeast corner of the house, and later submitted for PCB field screening analysis.

In addition, surface soil sample P009-SS-05A (Sample #: JCS-249) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-05, located south of the patch of trees in the center of the yard, and later submitted for PCB field screening analysis.

1300 hrs: Surface soil sample P009-SS-05B (Sample #: JCS-250) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-05 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P009-SS-09A (Sample #: JCS-260) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-09, located in the center of the yard in a low-lying spot, and later submitted for PCB field screening analysis.

1305 hrs: Surface soil sample P009-SS-01B (Sample #: JCS-239) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-01 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P009-SS-01 due to refusal.

In addition, surface soil sample P009-SS-05C (Sample #: JCS-251) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-05 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P009-SS-09B (Sample #: JCS-261) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-09 (see above) and later submitted for PCB field screening analysis.

1310 hrs: Surface soil sample P009-SS-08A (Sample #: JCS-257) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-08, located directly to the north of the patch of pine trees, and later submitted for PCB field screening analysis.

In addition, surface soil sample P009-SS-09C (Sample #: JCS-262) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-09 (see above) and later submitted for PCB field screening analysis.

1315 hrs: Surface soil sample P009-SS-02A (Sample #: JCS-240) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-02, located near the southwest corner of the house, and later submitted for PCB field screening analysis.

- 1320 hrs: Surface soil sample P009-SS-08B (Sample #: JCS-258) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1325 hrs: Surface soil sample P009-SS-02B (Sample #: JCS-241) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1330 hrs: Surface soil sample P009-SS-02C (Sample #: JCS-242) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1355 hrs: Surface soil sample P009-SS-03A (Sample #: JCS-243) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-03, located directly adjacent to the sump pump outfall, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P009-SS-06A (Sample #: JCS-252) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-06, located near the northwest corner of the dirt driveway, and later submitted for PCB field screening analysis.
- Also, surface soil sample P009-SS-08C (Sample #: JCS-259) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1400 hrs: Surface soil sample P009-SS-03B (Sample #: JCS-244) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-03 (see above) and later submitted for PCB field screening analysis.
- 1405 hrs: Surface soil sample P009-SS-03C (Sample #: JCS-245) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P009-SS-03 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P009-SS-06B (Sample #: JCS-253) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-06 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected from surface soil sample location P009-SS-06 due to refusal.
- 1415 hrs: Surface soil sample P009-SS-04A (Sample #: JCS-246) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-04, located at the northern boundary of the residence adjacent to the dirt driveway, and later submitted for PCB field screening analysis.
- 1420 hrs: Surface soil sample P009-SS-04B (Sample #: JCS-247) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-04 (see above) and later submitted for PCB field screening analysis.
- 1515 hrs: Surface soil sample P009-SS-04C (Sample #: JCS-248) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-04 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P007-SS-01A (Sample #: JCS-269) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-01, located directly adjacent to the deck at the southwest corner of the house, and later submitted for PCB field screening analysis.
- 1525 hrs: Surface soil sample P007-SS-01B (Sample #: JCS-270) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1530 hrs: Surface soil sample P007-SS-07A (Sample #: JCS-287) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-

SS-07, located directly south of sample location P007-SS-05, and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-08A (Sample #: JCS-290) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-08, located directly adjacent to the residence beneath the deck, and later submitted for PCB field screening analysis.

Also, surface soil sample P007-SS-09A (Sample #: JCS-293) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-09, located at the southwest corner of the property, and later submitted for PCB field screening analysis.

1535 hrs: Surface soil sample P007-SS-01C (Sample #: JCS-271) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-07B (Sample #: JCS-288) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-07 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P007-SS-09B (Sample #: JCS-294) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-09 (see above) and later submitted for PCB field screening analysis.

1540 hrs: Surface soil sample P007-SS-08B (Sample #: JCS-291) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-08 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-09C (Sample #: JCS-295) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-09 (see above) and later submitted for PCB field screening analysis.

1545 hrs: Surface soil sample P007-SS-07C (Sample #: JCS-289) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-07 (see above) and later submitted for PCB field screening analysis.

1550 hrs: Surface soil sample P007-SS-08C (Sample #: JCS-292) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-08 (see above) and later submitted for PCB field screening analysis.

1600 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START Member Kelly proceeded to deliver samples and paperwork to FedEx, located in Menands, NY for shipment. Below is a summary of the traffic reports (TR), Airbill numbers (AB), and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:

TR #: 1-041013-124717-0004, Master AB #: 5141 2418 0673, five aqueous equipment rinsate blank samples for PCB Aroclor analysis.

START Team Member reviewed and turned in completed surface soil data sheets for each sample location.

Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.

1630 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

11 April 2013 (Thursday) – Surface Soil Sampling

Weather: Cloudy, few sprinkles, low 40 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Ackerman, Dupree, Robinson, Saylor, and Sharp arrived at the Jard property. In addition, SAM Bosworth and Chemist Clifford also arrived on-site.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm. START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 0825 hrs: Surface soil sample P007-SS-04A (Sample #: JCS-278) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-04, located at the northwest corner of the property in a low-lying area, and later submitted for PCB field screening analysis.
START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- 0830 hrs: Surface soil sample P007-SS-03A (Sample #: JCS-275) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-03, located west of sample location P007-SS-02 at the northern boundary of the property, and later submitted for PCB field screening analysis.
In addition, surface soil sample P007-SS-04B (Sample #: JCS-279) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-04 (see above) and later submitted for PCB field screening analysis.
Also, surface soil sample P007-SS-05A (Sample #: JCS-281) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-05, located to the east of P007-SS-04 in a low-lying area, and later submitted for PCB field screening analysis.
- 0835 hrs: Surface soil sample P007-SS-05B (Sample #: JCS-282) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-05 (see above) and later submitted for PCB field screening analysis.
- 0840 hrs: Surface soil sample P007-SS-03B (Sample #: JCS-276) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-03 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P007-SS-04C (Sample #: JCS-280) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-04 (see above) and later submitted for PCB field screening analysis.
- 0845 hrs: Surface soil sample P007-SS-03C (Sample #: JCS-277) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-03 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P007-SS-05C (MS/MSD) (Sample #: JCS-283) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-05 (see above) and later submitted for PCB field screening analysis.
- 0850 hrs: Surface soil sample P007-SS-02A (Sample #: JCS-272) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-

SS-02, located directly adjacent to the driveway at the northern boundary of the property, and later submitted for PCB field screening analysis.

0855 hrs: Surface soil sample P007-SS-02B (Sample #: JCS-273) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-02 (see above) and later submitted for PCB field screening analysis.

0900 hrs: Surface soil sample P007-SS-02C (Sample #: JCS-274) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P007-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-10A (Sample #: JCS-296) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-10, located at the northeast corner of the house, and later submitted for PCB field screening analysis.

0905 hrs: Surface soil sample P007-SS-06A (Sample #: JCS-284) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-06, located at the southwest corner of the driveway, and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-06B (Sample #: JCS-285) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-06 (see above) and later submitted for PCB field screening analysis.

0915 hrs: Surface soil sample P007-SS-06C (Sample #: JCS-286) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-06 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-10B (Sample #: JCS-297) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-10 (see above) and later submitted for PCB field screening analysis.

0920 hrs: Surface soil sample P007-SS-10C (Sample #: JCS-298) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-10 (see above) and later submitted for PCB field screening analysis.

0930 hrs: Surface soil sample P006-SS-01A (Sample #: JCS-299) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-01, located in the northeast corner of the property within a flower garden, and later submitted for PCB field screening analysis.

0935 hrs: Surface soil sample P006-SS-01B (Sample #: JCS-300) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-05A (Sample #: JCS-311) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-05, located at the western edge of the property adjacent to Park St in a low-lying area, and later submitted for PCB field screening analysis.

0940 hrs: Surface soil sample P006-SS-04A (Sample #: JCS-308) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-04, located at the southwest corner of the house in a low-lying area, and later submitted for PCB field screening analysis.

0945 hrs: Surface soil sample P006-SS-01C (Sample #: JCS-301) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-04B (Sample #: JCS-309) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-04 (see above) and later submitted for PCB field screening analysis.

- Also, surface soil sample P006-SS-05B (Sample #: JCS-312) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-05 (see above) and later submitted for PCB field screening analysis.
- 0950 hrs: Surface soil sample P006-SS-04C (Sample #: JCS-310) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-04 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P006-SS-05C (Sample #: JCS-313) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1000 hrs: Surface soil sample P006-SS-03A (Sample #: JCS-305) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-03, located between the north side of the house and the driveway, and later submitted for PCB field screening analysis.
- 1005 hrs: Surface soil sample P006-SS-03B (Sample #: JCS-306) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-03 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P006-SS-07A (Sample #: JCS-317) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-07, located in a flower bed directly adjacent to the compost pile, and later submitted for PCB field screening analysis.
- Also, surface soil sample P006-SS-08A (Sample #: JCS-320) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-08, located in a low-lying spot approximately 20 feet west of the shed, and later submitted for PCB field screening analysis.
- 1010 hrs: Surface soil sample P006-SS-03C (Sample #: JCS-307) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-03 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P006-SS-07B (Sample #: JCS-318) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-07 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P006-SS-08B (Sample #: JCS-321) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1015 hrs: Surface soil sample P006-SS-07C (Sample #: JCS-319) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1020 hrs: Surface soil sample P006-SS-06A (Sample #: JCS-314) was collected with a plastic scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-06, located along the western property boundary in a low-lying area, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P006-SS-06B (Sample #: JCS-315) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-06 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P006-SS-08C (Sample #: JCS-322) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1035 hrs: Surface soil sample P006-SS-02A (Sample #: JCS-302) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-

SS-02, located directly adjacent to the southeast corner of the house within a flower bed, and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-06C (Sample #: JCS-316) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P006-SS-06 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P006-SS-09A (Sample #: JCS-323) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-09, located within the vegetable garden directly adjacent to the gate, and later submitted for PCB field screening analysis.

1040 hrs: Surface soil sample P006-SS-02B (Sample #: JCS-303) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-02 (see above) and later submitted for PCB field screening analysis.

1045 hrs: Surface soil sample P006-SS-02C (Sample #: JCS-304) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-09B (Sample #: JCS-324) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-09 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P006-SS-10A (Sample #: JCS-326) was collected with a plastic scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-10, located within the vegetable garden directly north of sample P006-SS-09, and later submitted for PCB field screening analysis.

1050 hrs: Surface soil sample P006-SS-10B (Sample #: JCS-327) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-10 (see above) and later submitted for PCB field screening analysis.

1100 hrs: Surface soil sample P006-SS-09C (Sample #: JCS-325) was collected with a hand auger at a depth of 12 to 16 inches bgs from surface soil sample location P006-SS-09 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-10C (Sample #: JCS-328) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-10 (see above) and later submitted for PCB field screening analysis.

Also, equipment rinsate blank sample RB-42 (Sample #: JCW-025; CLP #: A4B14) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.

1120 hrs: Surface soil sample P005-SS-07A (Sample #: JCS-348) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-07, located in the northwest corner of the residence in a low-lying spot, and later submitted for PCB field screening analysis.

In addition, surface soil sample P005-SS-10A (Sample #: JCS-357) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-10, located directly adjacent to a shed in the center of the yard, and later submitted for PCB field screening analysis.

1125 hrs: Surface soil sample P005-SS-07B (Sample #: JCS-349) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-07 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P005-SS-09A (Sample #: JCS-354) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-09, located along the southern edge of the property in a low-lying area, and later submitted for PCB field screening analysis.

Also, surface soil sample P005-SS-10B (Sample #: JCS-358) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-10 (see above) and later submitted for PCB field screening analysis.

1130 hrs: Surface soil sample P005-SS-07C (Sample #: JCS-350) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-07 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P005-SS-09B (Sample #: JCS-355) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-09 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P005-SS-10C (Sample #: JCS-359) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-10 (see above) and later submitted for PCB field screening analysis.

1140 hrs: Surface soil sample P005-SS-09C (Sample #: JCS-356) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-09 (see above) and later submitted for PCB field screening analysis.

1155 hrs: Surface soil sample P005-SS-04A (Sample #: JCS-340) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-04, located on the western bank of the brook directly adjacent to the footbridge, and later submitted for PCB field screening analysis.

1205 hrs: Surface soil sample P005-SS-04B (Sample #: JCS-341) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-04 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected from surface sample location P005-SS-04 due to refusal.

1210 hrs: Surface soil sample P005-SS-08A (Sample #: JCS-351) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-08, located in between the sheds adjacent to a maple tree, and later submitted for PCB field screening analysis.

1215 hrs: Surface soil sample P005-SS-08B (Sample #: JCS-352) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-08 (see above) and later submitted for PCB field screening analysis.

1220 hrs: Surface soil sample P005-SS-05A (Sample #: JCS-342) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-05, located adjacent to the driveway in the northeast corner of the property, and later submitted for PCB field screening analysis.

1225 hrs: Surface soil sample P005-SS-03A (Sample #: JCS-337) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-03, located on the western bank of the brook directly adjacent to the footbridge, and later submitted for PCB field screening analysis.

In addition, surface soil sample P005-SS-05B (Sample #: JCS-343) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-05 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P005-SS-08C (Sample #: JCS-353) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-08 (see above) and later submitted for PCB field screening analysis.

1230 hrs: Surface soil sample P005-SS-03B (Sample #: JCS-338) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-03 (see above) and later submitted for PCB field screening analysis.

- 1235 hrs: Surface soil sample P005-SS-05C (Sample #: JCS-344) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1240 hrs: Surface soil sample P005-SS-03C (Sample #: JCS-339) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-03 (see above) and later submitted for PCB field screening analysis.
- 1250 hrs: Surface soil sample P005-SS-06A (Sample #: JCS-345) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-06, located adjacent to the brook running through the property on the eastern bank, and later submitted for PCB field screening analysis.
- 1255 hrs: Surface soil sample P005-SS-06B (Sample #: JCS-346) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-06 (see above) and later submitted for PCB field screening analysis.
- 1300 hrs: Surface soil sample P005-SS-06C (Sample #: JCS-347) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-06 (see above) and later submitted for PCB field screening analysis.
- 1310 hrs: Surface soil sample P005-SS-01A (Sample #: JCS-329) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-01, located directly adjacent to the carport in the southeast corner of the property, and later submitted for PCB field screening analysis.
- 1315 hrs: Surface soil sample P005-SS-01B (Sample #: JCS-330) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1320 hrs: Surface soil sample P004-SS-05A (Sample #: JCS-372) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-05, located at the southern edge of the residence, adjacent to the gravel driveway, and later submitted for PCB field screening analysis.
- 1325 hrs: Surface soil sample P005-SS-01C (Sample #: JCS-332) and surface soil sample field duplicate P005-SS-106C (Sample #: JCS-333) were collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-01 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P005-SS-02A (Sample #: JCS-334) and surface soil sample field duplicate P005-SS-107A (Sample #: JCS-335) were collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-02, located on the western bank of a brook running through the residence, and later submitted for PCB field screening analysis.
- 1330 hrs: Surface soil sample P005-SS-02B (Sample #: JCS-336) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-02 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P005-SS-02 due to refusal.
- In addition, surface soil sample P004-SS-05B (Sample #: JCS-373) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1335 hrs: Surface soil sample P004-SS-05C (Sample #: JCS-374) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1345 hrs: Surface soil sample P004-SS-10A (Sample #: JCS-386) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-

- SS-10, located at the southern edge of the residence, west of P004-SS-05, and later submitted for PCB field screening analysis.
- 1350 hrs: Surface soil sample P004-SS-10B (Sample #: JCS-387) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1355 hrs: Surface soil sample P004-SS-09A (Sample #: JCS-383) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-09, located east of the swing set, and later submitted for PCB field screening analysis. In addition, surface soil sample P004-SS-10C (Sample #: JCS-388) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1400 hrs: Surface soil sample P004-SS-02A (Sample #: JCS-363) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-02, located in the center of the yard in a low-lying area, and later submitted for PCB field screening analysis. In addition, surface soil sample P004-SS-09B (Sample #: JCS-384) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1405 hrs: Surface soil sample P004-SS-04A (Sample #: JCS-369) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-04, located within the former location of an above-ground pool, and later submitted for PCB field screening analysis.
- 1410 hrs: Surface soil sample P004-SS-09C (Sample #: JCS-385) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1415 hrs: Surface soil sample P004-SS-02B (Sample #: JCS-364) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1425 hrs: Surface soil sample P004-SS-02C (Sample #: JCS-365) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P004-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1430 hrs: Surface soil sample P004-SS-04B (Sample #: JCS-370) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-04 (see above) and later submitted for PCB field screening analysis. In addition, surface soil sample P004-SS-07A (Sample #: JCS-378) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-07, located adjacent to the northwest corner of the house at the sump pump outfall, and later submitted for PCB field screening analysis. Also, surface soil sample P004-SS-08A (Sample #: JCS-380) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-08, located adjacent to the swing set near the western boundary of the property, and later submitted for PCB field screening analysis.
- 1435 hrs: Surface soil sample P004-SS-04C (Sample #: JCS-371) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-04 (see above) and later submitted for PCB field screening analysis. In addition, surface soil sample P004-SS-08B (Sample #: JCS-381) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-08 (see above) and later submitted for PCB field screening analysis.

- 1440 hrs: Surface soil sample P004-SS-07B (Sample #: JCS-379) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-07 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P004-SS-07 due to refusal.
- 1445 hrs: Surface soil sample P004-SS-01A (Sample #: JCS-360) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-01, located behind the shed at the western boundary of the property, and later submitted for PCB field screening analysis.
- 1450 hrs: Surface soil sample P004-SS-01B (Sample #: JCS-361) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-01 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-08C (Sample #: JCS-382) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P004-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1455 hrs: Surface soil sample P004-SS-01C (Sample #: JCS-362) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1510 hrs: Surface soil sample P004-SS-03A (Sample #: JCS-366) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-03, located adjacent to the house in the front yard, and later submitted for PCB field screening analysis.
- 1515 hrs: Surface soil sample P004-SS-03B (Sample #: JCS-367) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-03 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-06A (Sample #: JCS-375) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-06, located to the east of the shed, and later submitted for PCB field screening analysis.
- 1520 hrs: Surface soil sample P004-SS-03C (Sample #: JCS-368) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-03 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-06B (Sample #: JCS-376) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-06 (see above) and later submitted for PCB field screening analysis.
- 1530 hrs: Surface soil sample P004-SS-06C (Sample #: JCS-377) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P004-SS-06 (see above) and later submitted for PCB field screening analysis.
START member Hornok discussed available PCB screening results, locations of screening results samples and potential inferences with background surface soil sample screening results.
r with COR Bosworth
START Team Member reviewed and turned in completed surface soil data sheets for each sample location.
Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.
- 1630 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

12 April 2013 (Friday) – Surface Soil Sampling

Weather: Rain and snow, low 30 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Ackerman, Dupree, Robinson, Saylor, and Sharp arrived at the Jard property.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, Traffic/driving concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
- START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 0820 hrs: START Member Hornok spoke with COR Bosworth regarding EPA Chemist Clifford's concern regarding PCB inference in surface sampling during field screening analyses and request to send some samples to EPA NERL for confirmation analyses and check of interference. Clifford believes inference may be result of pesticide application. COR Bosworth agreed to plan to provide samples to NERL if the chemist advised. SAM Bosworth asked if she should check on details or if Clifford would make arrangements. SAM Bosworth would initiate arrangements from her end. START member Hornok indicated that samples would not be submitted until next week and look to be less than 20 samples.
- 0840 hrs: Surface soil sample P003-SS-01A (Sample #: JCS-389) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-01, located at the northern boundary directly east of the shed, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P003-SS-06A (Sample #: JCS-404) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-06, located in the southwest corner of the yard north of a shed, and later submitted for PCB field screening analysis.
- 0845 hrs: Surface soil sample P003-SS-03A (Sample #: JCS-395) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-03, located approximately 10 feet south of the horse barn, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P003-SS-06B (Sample #: JCS-405) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-06 (see above) and later submitted for PCB field screening analysis.
- 0850 hrs: Surface soil sample P003-SS-01B (Sample #: JCS-390) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-01 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P003-SS-03B (Sample #: JCS-396) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-03 (see above) and later submitted for PCB field screening analysis.
- 0855 hrs: Surface soil sample P003-SS-03C (Sample #: JCS-397) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-03 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P003-SS-06C (Sample #: JCS-406) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-06 (see above) and later submitted for PCB field screening analysis.

0900 hrs: Surface soil sample P003-SS-01C (Sample #: JCS-391) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-01 (see above) and later submitted for PCB field screening analysis.

START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.

0905 hrs: Surface soil sample P003-SS-09A (Sample #: JCS-413) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-09, located at the edge of the foundation, south of the dog kennel, and later submitted for PCB field screening analysis.

0910 hrs: Surface soil sample P003-SS-05A (Sample #: JCS-401) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-05, located in the center of the backyard in a low-lying area, and later submitted for PCB field screening analysis.

In addition, surface soil sample P003-SS-09B (Sample #: JCS-414) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-09 (see above) and later submitted for PCB field screening analysis.

0915 hrs: Surface soil sample P003-SS-02A (Sample #: JCS-392) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-02, located at the edge of residence adjacent to sump pump outfall of neighboring residence, and later submitted for PCB field screening analysis.

In addition, surface soil sample P003-SS-05B (Sample #: JCS-402) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-05 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P003-SS-09C (Sample #: JCS-415) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-09 (see above) and later submitted for PCB field screening analysis.

0920 hrs: Surface soil sample P003-SS-02B (Sample #: JCS-393) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, equipment rinsate blank sample RB-43 (Sample #: JCW-026; CLP #: A4B15) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.

0925 hrs: Surface soil sample P003-SS-02C (Sample #: JCS-394) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P003-SS-05C (Sample #: JCS-403) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-05 (see above) and later submitted for PCB field screening analysis.

0940 hrs: Surface soil sample P003-SS-07A (Sample #: JCS-407) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-07, located in the northeast corner of the property adjacent to the gravel driveway, and later submitted for PCB field screening analysis.

In addition, surface soil sample P003-SS-08A (Sample #: JCS-410) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-08, located directly adjacent to the house by a tree, and later submitted for PCB field screening analysis.

- 0945 hrs: Surface soil sample P003-SS-07B (Sample #: JCS-408) was collected with a metal scoop at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-02 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P003-SS-10A (Sample #: JCS-416) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-10, located at the end of the gravel driveway, and later submitted for PCB field screening analysis.
- 0950 hrs: Surface soil sample P003-SS-07C (Sample #: JCS-409) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-07 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P003-SS-08B (Sample #: JCS-411) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-08 (see above) and later submitted for PCB field screening analysis.
Also, surface soil sample P003-SS-10B (Sample #: JCS-417) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-10 (see above) and later submitted for PCB field screening analysis.
- 0955 hrs: Surface soil sample P003-SS-10C (Sample #: JCS-418) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1000 hrs: Surface soil sample P003-SS-04A (Sample #: JCS-398) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P003 at surface soil sample location P003-SS-04, located in the southwest corner of the property directly adjacent to the horse yard, and later submitted for PCB field screening analysis.
In addition, surface soil sample P003-SS-08C (Sample #: JCS-412) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1005 hrs: Surface soil sample P003-SS-04B (Sample #: JCS-399) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P003-SS-04 (see above) and later submitted for PCB field screening analysis.
- 1010 hrs: Surface soil sample P003-SS-04C (Sample #: JCS-400) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P003-SS-04 (see above) and later submitted for PCB field screening analysis.
- 1030 hrs: Background surface soil sample P020-SS-01A (Sample #: JCS-449) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-01, located along the western boundary of the northern residence, and later submitted for PCB field screening analysis.
In addition, background surface soil sample P020-SS-08A (Sample #: JCS-466) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-08, located along the northern boundary of the northern residence adjacent to the brook, and later submitted for PCB field screening analysis.
- 1035 hrs: Background surface soil sample P020-SS-08B (Sample #: JCS-467) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1040 hrs: Background surface soil sample P020-SS-01B (Sample #: JCS-450) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-01 (see above) and later submitted for PCB field screening analysis.
In addition, background surface soil sample P020-SS-08C (Sample #: JCS-468) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P020-SS-08 (see above) and later submitted for PCB field screening analysis.

- 1045 hrs: Background surface soil sample P020-SS-01C (Sample #: JCS-451) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P020-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1100 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START Member Sharp and Robinson proceeded to deliver samples and paperwork to FedEx, located in Brattleboro, VT for shipment. Below is a summary of the traffic reports (TR), Airbill numbers (AB), and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:
TR #: 1-041213-092831-0005, Master AB #: 5141 2418 0695, two aqueous equipment rinsate blank samples for PCB Aroclor analysis.
START Team Members reviewed and turned in completed surface soil data sheets for each sample location
- 1200 hrs: Remaining START personnel secured IDW drums, secured the site and departed the Jard property for the START office located in Andover, MA.

15 April 2013 (Monday) – Surface Soil Sampling

Weather: Partly sunny, mid 50 °F

- 1015 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Christine Scesny, and Sharp arrived at the Jard property.
- 1030 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, dogs/pets, snakes, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 1055 hrs: Background surface soil sample P020-SS-02A (Sample #: JCS-452) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-02, located along the western boundary of the northern residence directly south of sample location P020-SS-01, and later submitted for PCB field screening analysis.
In addition, background surface soil sample P020-SS-09A (Sample #: JCS-588) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-09, located at the eastern boundary of the northern residence along Bowen Road, and later submitted for PCB field screening analysis.
- 1100 hrs: Background surface soil sample P020-SS-02B (Sample #: JCS-453) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-02 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected at background surface soil sample location P020-SS-02 due to refusal.
In addition, background surface soil sample P020-SS-03A (Sample #: JCS-454) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil

sample location P020-SS-03, located in the center of the yard at the northern residence, and later submitted for PCB field screening analysis.

Also, background surface soil sample P020-SS-09B (Sample #: JCS-470) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-09 (see above) and later submitted for PCB field screening analysis.

1110 hrs: Background surface soil sample P020-SS-03B (Sample #: JCS-455) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-03 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for background surface soil sample location P020-SS-03 due to refusal.

1115 hrs: Background surface soil sample P020-SS-06A (Sample #: JCS-461) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-06, located at the northeast corner of the southern residence adjacent to the brook, and later submitted for PCB field screening analysis.

In addition, background surface soil sample P020-SS-09C (Sample #: JCS-471) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P020-SS-09 (see above) and later submitted for PCB field screening analysis.

1120 hrs: Background surface soil sample P020-SS-06B (Sample #: JCS-462) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-06 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for background surface soil sample location P020-SS-06 due to refusal.

1130 hrs: Background surface soil sample P020-SS-04A (Sample #: JCS-456) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-04, located at the northwest corner of the southern residence, and later submitted for PCB field screening analysis.

In addition, background surface soil sample P020-SS-05A (Sample #: JCS-459) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-05, located directly adjacent and to the south of the driveway on the southern residence, and later submitted for PCB field screening analysis.

Also, background surface soil sample P020-SS-07A (Sample #: JCS-463) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-07, located at the southern boundary of the southern residence adjacent to the brook, and later submitted for PCB field screening analysis.

1135 hrs: Background surface soil sample P020-SS-07B (Sample #: JCS-464) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-07 (see above) and later submitted for PCB field screening analysis.

In addition, background surface soil sample P020-SS-10A (Sample #: JCS-472) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-10, located in the center of the front yard of the southern residence, and later submitted for PCB field screening analysis.

1140 hrs: Background surface soil sample P020-SS-04B (Sample #: JCS-457) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-04 (see above) and later submitted for PCB field screening analysis.

In addition, background surface soil sample P020-SS-05B (Sample #: JCS-460) was collected with a hand auger at a depth of 6 to 10 inches bgs from surface soil sample location P020-SS-05 (see above) and later submitted for PCB field screening analysis.

Also, background surface soil sample P020-SS-07C (Sample #: JCS-465) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P020-SS-07 (see above) and later submitted for PCB field screening analysis.

- Background surface soil sample P020-SS-10B (Sample #: JCS-473) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1145 hrs: Background surface soil sample P020-SS-10C (Sample #: JCS-474) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P020-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1150 hrs: Background surface soil sample P020-SS-04C (Sample #: JCS-458) was collected with a hand auger at a depth of 12 to 16 inches bgs from surface soil sample location P020-SS-04 (see above) and later submitted for PCB field screening analysis.
- 1200 hrs: Equipment rinsate blank sample RB-44 (Sample #: JCW-027; CLP #: A4B16) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.
- START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- 1235 hrs: Surface soil sample P002-SS-03A (Sample #: JCS-425) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-03, located in a drainage channel behind the house, and later submitted for PCB field screening analysis.
- 1240 hrs: Surface soil sample P002-SS-01A (Sample #: JCS-419) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-01, located on the western boundary by the tree line, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P002-SS-03B (Sample #: JCS-426) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-03 (see above) and later submitted for PCB field screening analysis.
- 1242 hrs: Surface soil sample P002-SS-08A (Sample #: JCS-440) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-08, located approximately 75 feet from the house in a low-lying area, and later submitted for PCB field screening analysis.
- 1245 hrs: Surface soil sample P002-SS-03C (Sample #: JCS-427) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-03 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P002-SS-09A (Sample #: JCS-443) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-09, located directly adjacent to the garage on the west side, and later submitted for PCB field screening analysis.
- 1250 hrs: Surface soil sample P002-SS-01B (Sample #: JCS-420) and surface soil sample field duplicate P002-SS-110B (Sample #: JCS-584) were collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-01 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P002-SS-08B (Sample #: JCS-441) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-08 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P002-SS-09B (Sample #: JCS-444) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1255 hrs: Surface soil sample P002-SS-02A (Sample #: JCS-422) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-

SS-02, located in a low-lying area north of shed, and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-09C (Sample #: JCS-445) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-09 (see above) and later submitted for PCB field screening analysis.

1300 hrs: Surface soil sample P002-SS-01C (Sample #: JCS-421) was collected with a hand auger at a depth of 12 to 16 inches bgs from surface soil sample location P002-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-02B (Sample #: JCS-423) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-02 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P002-SS-08C (Sample #: JCS-442) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-08 (see above) and later submitted for PCB field screening analysis.

1305 hrs: Surface soil sample P002-SS-02C (Sample #: JCS-424) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-06A (Sample #: JCS-434) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-06, located in the center of the yard in a low-lying area, and later submitted for PCB field screening analysis.

1310 hrs: Surface soil sample P002-SS-05A (Sample #: JCS-431) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-05, located directly adjacent to the house at the sump outfall, and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-06B (Sample #: JCS-435) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-06 (see above) and later submitted for PCB field screening analysis.

1315 hrs: Surface soil sample P002-SS-04A (Sample #: JCS-428) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-04, located adjacent to the utility pole, and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-06C (Sample #: JCS-436) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-06 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P002-SS-07A (Sample #: JCS-437) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-07, located in the northwest corner of the property in a compost pile at the tree line, and later submitted for PCB field screening analysis.

1320 hrs: Surface soil sample P002-SS-04B (Sample #: JCS-429) was collected with a metal scoop at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-04 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-05B (Sample #: JCS-432) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-05 (see above) and later submitted for PCB field screening analysis.

1325 hrs: Surface soil sample P002-SS-04C (Sample #: JCS-430) was collected with a metal scoop at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-04 (see above) and later submitted for PCB field screening analysis.

- In addition, surface soil sample P002-SS-07B (Sample #: JCS-438) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-07 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P002-SS-10A (Sample #: JCS-446) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-10, located approximately 10 feet from Park Street at the NE corner of the property, and later submitted for PCB field screening analysis.
- 1330 hrs: Surface soil sample P002-SS-05C (Sample #: JCS-433) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-05 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P002-SS-10B (Sample #: JCS-447) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1335 hrs: Surface soil sample P002-SS-07C (Sample #: JCS-439) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P002-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1340 hrs: Surface soil sample P002-SS-10C (Sample #: JCS-448) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1355 hrs: Surface soil sample P001-SS-03A (Sample #: JCS-487) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-03, located approximately 20 feet south of the stream, and later submitted for PCB field screening analysis.
- 1400 hrs: Surface soil sample P001-SS-02A (Sample #: JCS-484) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-02, located west of a manhole cover, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P001-SS-09A (Sample #: JCS-503) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-09, located on the southern bank of the stream, 50 feet east of P001-SS-08, and later submitted for PCB field screening analysis.
- 1405 hrs: Surface soil sample P001-SS-02B (Sample #: JCS-485) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-02 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P001-SS-03B (Sample #: JCS-488) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-03 (see above) and later submitted for PCB field screening analysis.
- 1410 hrs: Surface soil sample P001-SS-09B (Sample #: JCS-504) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-09 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P001-SS-09 due to refusal.
- START member Hornok spoke with COR Bosworth via cellphone and discussed the status of sampling to date, field screening data results, residential soil sampling observations, CLP sample shipments, and plan for wetland sampling activities.
- 1415 hrs: Surface soil sample P001-SS-02C (Sample #: JCS-486) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P001-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1420 hrs: Surface soil sample P001-SS-06A (Sample #: JCS-496) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-

SS-06, located at the southern boundary of the property near the tree line, and later submitted for PCB field screening analysis.

1425 hrs: Surface soil sample P001-SS-03C (Sample #: JCS-489) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-03 (see above) and later submitted for PCB field screening analysis.

1430 hrs: Surface soil sample P001-SS-04A (Sample #: JCS-490) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-04, located in the center of the yard next to a pine tree, and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-06B (Sample #: JCS-497) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-06 (see above) and later submitted for PCB field screening analysis.

1435 hrs: Surface soil sample P001-SS-04B (Sample #: JCS-491) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-04 (see above) and later submitted for PCB field screening analysis.

1440 hrs: Surface soil sample P001-SS-04C (Sample #: JCS-492) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-04 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-06C (Sample #: JCS-498) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-06 (see above) and later submitted for PCB field screening analysis.

1443 hrs: Surface soil sample P001-SS-07A (Sample #: JCS-499) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-07, located on the southern bank of the stream, and later submitted for PCB field screening analysis.

1450 hrs: Surface soil sample P001-SS-05A (Sample #: JCS-493) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-05, located near the western boundary of the property on the tree line, and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-07B (Sample #: JCS-500) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-07 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P001-SS-07 due to refusal.

1500 hrs: Surface soil sample P001-SS-05B (Sample #: JCS-494) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-05 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-10A (Sample #: JCS-505) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-10, located on the south side of stream at Kocher Drive and Park St intersection, and later submitted for PCB field screening analysis.

1505 hrs: Surface soil sample P001-SS-10B (Sample #: JCS-506) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-10 (see above) and later submitted for PCB field screening analysis.

1510 hrs: Surface soil sample P001-SS-05C (Sample #: JCS-495) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P001-SS-05 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-10C (Sample #: JCS-507) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-10 (see above) and later submitted for PCB field screening analysis.

- 1520 hrs: Surface soil sample P001-SS-08A (Sample #: JCS-501) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-08, located on the southern bank of the stream, 50 feet east of P001-SS-07, and later submitted for PCB field screening analysis.
- 1530 hrs: Surface soil sample P001-SS-01A (Sample #: JCS-481) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-01, located directly adjacent to the residence beneath the former location of a recently demolished deck, and later submitted for PCB field screening analysis.
- 1535 hrs: Surface soil sample P001-SS-08B (Sample #: JCS-502) was collected with a hand auger at a depth of 6 to 10 inches bgs from surface soil sample location P001-SS-08 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P001-SS-08 due to refusal.
- 1540 hrs: Surface soil sample P001-SS-01B (Sample #: JCS-482) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1550 hrs: Surface soil sample P001-SS-01C (Sample #: JCS-483) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1600 hrs: START Team Members reviewed and turned in completed surface soil data sheets for each sample location.
Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.
- 1630 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

16 April 2013 (Tuesday) – Sediment Sampling

Weather: Partly cloudy, 45 to 50 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Christine Scesny, and Sharp arrived at the Jard property.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, working near water, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, thorn bushes, snakes, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
START Team established decontamination area and conduct decontamination of non-sample SD-50A (Sample #: JCS-556) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0850 hrs: Sediment sample SD-50B (Sample #: JCS-557) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0855 hrs: Sediment sample SD-50C (Sample #: JCS-558) was collected using a hand auger at a depth of 12 dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be

COPY

SDG# A4B16

USEPA CLP Organics COC (LAB COPY)**CHAIN OF CUSTODY RECORD**

Date Shipped: 4/18/2013

Carrier Name: FedEx

Airbill No: 5141 2418 0857

Case #: 43395

Cooler #: WL002/SB011

No: 1-041813-120158-0013

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4B81	Soil/ START	Grab	CLP PCBs(21)	758 (4 C) (1)	JCS-345	04/11/2013 12:50		
A4B82	Soil/ START	Grab	CLP PCBs(21)	760 (4 C) (1)	JCS-347	04/11/2013 13:00		
A4B83	Soil/ START	Grab	CLP PCBs(21)	762 (4 C) (1)	JCS-172	04/09/2013 11:25		
A4B84	Soil/ START	Grab	CLP PCBs(21)	764 (4 C) (1)	JCS-164	04/09/2013 11:05		
A4B85	Soil/ START	Grab	CLP PCBs(21)	766 (4 C) (1)	JCS-334	04/11/2013 13:25		
A4B86	Soil/ START	Grab	CLP PCBs(21)	768 (4 C) (1)	JCS-270	04/10/2013 15:25		
A4B87	Soil/ START	Grab	CLP PCBs(21), CLP PCBs(21)	770 (4 C), 771 (4 C) (2)	JCS-219	04/10/2013 09:30		
A4B88	Soil/ START	Grab	CLP PCBs(21)	773 (4 C) (1)	JCS-217	04/10/2013 09:20		
A4B89	Soil/ START	Grab	CLP PCBs(21)	776 (4 C) (1)	JCS-577	04/10/2013 09:20		
A4B90	Soil/ START	Grab	CLP PCBs(21)	778 (4 C) (1)	JCS-456	04/15/2013 11:30		
A4B91	Soil/ START	Grab	CLP PCBs(21)	780 (4 C) (1)	JCS-454	04/15/2013 11:00		
A4B92	Soil/ START	Grab	CLP PCBs(21)	782 (4 C) (1)	JCS-464	04/15/2013 11:35		
A4B93	Soil/ START	Grab	CLP PCBs(21)	784 (4 C) (1)	JCS-465	04/15/2013 11:40		
A4B94	Soil/ START	Grab	CLP PCBs(21)	786 (4 C) (1)	JCS-466	04/12/2013 10:30		
A4B95	Soil/ START	Grab	CLP PCBs(21)	788 (4 C) (1)	JCS-449	04/12/2013 10:30		
A4B96	Soil/ START	Grab	CLP PCBs(21)	790 (4 C) (1)	JCS-473	04/15/2013 11:40		
A4B97	Soil/ START	Grab	CLP PCBs(21)	792 (4 C) (1)	JCS-450	04/12/2013 10:40		
A4B98	Soil/ START	Grab	CLP PCBs(21)	794 (4 C) (1)	JCS-471	04/15/2013 11:15		
A4B99	Soil/ START	Grab	CLP PCBs(21)	796 (4 C) (1)	JCS-578	04/17/2013 07:00		

Sample(s) to be used for Lab QC: A4B87

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

N/A

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Samples	Alpha Rf	4/18/13	Airbill # 5141 2418 0857	4/18/13	1315						
						Samples	Airbill # 5141 2418 0857		Palak shd	4/19/13	935

(A4B98 is last sample in SDG# A4B16)

Temp 5°C

Lab Phone: 908-789-8900

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Samples	G Harndy	4/17/13	Arbille # 5141 24180700	4/17/13	1300						
						Samples	Arbille # 5141 24180700		Rabek Shdn	4/18/13	94

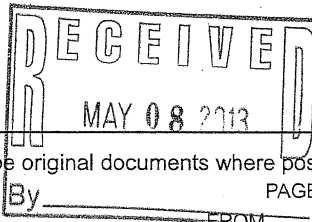
Temp 5°C

DE/ESAT

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2

Jard Company
Weston

LABORATORY NAME :	CHEMTECH CONSULTING GROUP, INC.		
CITY / STATE :	MOUNTAINSIDE, NJ		
CASE NO :	43395	SDG NO :	A4B16
SDG NOs TO FOLLOW	N/A	N/A	N/A
MOD. REF. NO. :	N/A		
CONTRACT NO :	EPW11030		
SOW NO :	SOM 01.2		



MAY 08 2013

All documents delivered in the Complete SDG File (CSF) must be original documents where possible.

	PAGE NOS:		CHECK	
	By	FROM TO	LAB	USEPA Weston
1. Inventory Sheet (DC-2) (Do not number)			✓	✓
2. SDG Narrative	1	5	✓	✓
3. SDG Cover Sheet/Traffic Report	6	8	✓	✓
4. <u>Trace Volatiles Data</u>				
a. <u>QC Summary</u>				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	NA	NA	✓	NA
Matrix Spike/Matrix Spike Duplicate Recover (Form III VOA) (if requested by USEPA Region)	NA	NA	✓	
Method Blank Summary (Form IV VOA)	NA	NA	✓	
GC/MS Instrument Performance Check (Form V VOA)	NA	NA	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	NA	NA	✓	
b. <u>Sample Data</u>	NA	NA	✓	
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)				
Tentatively Identified Compounds (Form I VOA-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass Spectra of all reported TICs with three best library matches				
c. <u>Standards Data (All Instruments)</u>	NA	NA	✓	
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)				
RICs and Quantitation Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)				
RICs and Quantitation Reports for all Standards				
d. <u>Raw/Quality Control</u>				
BFB	NA	NA	✓	
Blank Data	NA	NA	✓	
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)	NA	NA	✓	

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**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B16	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

e. Trace SIM Data (Place at the end of the Trace Volatiles Section

[Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]

NA NA ✓ NA

5. Low/Med Volatiles Data

a. QC Summary

Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)

NA NA ✓

Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1 and VOA-2) (if requested by USEPA Region)

NA NA ✓

Method Blank Summary (Form IV VOA)

NA NA ✓

GC/MS Instrument Performance Check (Form V VOA)

NA NA ✓

Internal Standard Area and RT Summary (Form VIII VOA)

NA NA ✓

b. Sample Data

NA NA ✓

TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)

Tentatively Identified Compounds (Form I VOA-TIC)

Reconstructed total ion chromatograms (RIC) for each sample

For each sample:

Raw Spectra and background-subtracted mass spectra of target compounds identified

Quantitation reports

Mass Spectra of all reported TICs with three best library matches

c. Standards Data (All Instruments)

NA NA ✓

Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)

RICs and Quantitation Reports for all Standards

Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)

RICs and Quantitation Reports for all Standards

d. Raw/Quality Control (QC)Data

BFB

NA NA ✓

Blank Data

NA NA ✓

Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)

NA NA ✓

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**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B16	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

6. Semivolatiles Data

a. QC Summary

Deuterated Monitoring Compound Recovery (Form II SV-1, SV-2, SV-3, SV-4)

NA	NA	✓	NA
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Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)

NA	NA	✓	
----	----	---	--

Method Blank Summary (Form IV SV)

NA	NA	✓	
----	----	---	--

GC/MS Instrument Performance Check (Form V SV)

NA	NA	✓	
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Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)

NA	NA	✓	
----	----	---	--

b. Sample Data

TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)

NA	NA	✓	
----	----	---	--

Tentatively Identified Compounds (Form I SV-TIC)

--	--	--	--

Reconstructed total ion chromatograms (RIC) for each sample

--	--	--	--

For each sample:

NA	NA	✓	
----	----	---	--

Raw Spectra and background-subtracted mass spectra of target compounds

--	--	--	--

Quantitation reports

--	--	--	--

Mass Spectra of TICs with three best library matches

--	--	--	--

GPC chromatograms (if GPC is r

--	--	--	--

c. Standards Data (All Instruments)

NA	NA	✓	
----	----	---	--

Initial Calibration Data (Form VI SV-1, SV-2, SV-3)

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RICs and Quantitation

--	--	--	--

Continuing Calibration Data (Form VII SV-1, S

--	--	--	--

RICs and Quantitation Reports for all Standards

--	--	--	--

d. Raw (QC)Data

DFTPP

NA	NA	✓	
----	----	---	--

Blank Data

NA	NA	✓	
----	----	---	--

MS/MSD Data (if requested by USEPA Region)

NA	NA	✓	
----	----	---	--

e. Raw GPC Data

NA	NA	✓	
----	----	---	--

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**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B16	SDG NOS TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Semivolatiles SIM Data

[Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III-SV-SIM1 and SV-SIM2 (if required; Form IV SV-SIM; Form VI SV-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]

NA NA ✓ NA

7. Pesticides Data

a. QC Summary

Surrogate Recovery Summary (Form II PEST-1 and PEST-2)

NA NA ✓

Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)

NA NA ✓

Laboratory Control Sample Recovery (Form III PEST-3 and PEST-4)

NA NA ✓

Method Blank Summary (Form IV PEST)

NA NA ✓

b. Sample Data

NA NA ✓

TCL Results - Organics Analysis Data Sheet (Form I PEST)

Chromatograms (Primary Column)

Chromatograms from second GC column confirmation

GC Integration report or data system printout

Manual work sheets

For Pesticides by GC/MS

Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)

c. Standards Data

NA NA ✓

Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)

Toxaphene Initial Calibration (Form VI PEST-3 and PEST-4)

Analyte Resolution Summary (Form VI PEST-5, per column)

Performance Evaluation Mixture (Form VI PEST-6)

Individual Standard Mixture A (Form VI PEST-7)

Individual Standard Mixture B (Form VI PEST-8)

Individual Standard Mixture C (Form VI PEST-9 and PEST-10)

Calibration Verification Summary (Form VII PEST-1)

Calibration Verification Summary (Form VII PEST-2)

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B16	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Calibration Verification Summary (Form VII PEST-3)		NA
Calibration Verification Summary (Form VII PEST-4)		
Analytical Sequence (Form VIII PEST)		
Florisil Cartridge Check (Form IX PEST-1)		
Pesticide GPC Calibration (Form IX PEST-2)		
Identification Summary for Single Component Analytes (Form X PEST-1)		
Identification Summary for Toxaphene Form X PEST-2)		
Chromatograms and data system printouts		
A printout of Retention Times and corresponding peak areas or peak heights		

d. Raw QC Data

Blank Data	NA	NA	✓	
Matrix Spike/Matrix Spike Duplicate Data	NA	NA	✓	
Laboratory Control Sample	NA	NA	✓	
e. Raw GPC Data	NA	NA	✓	
f. Raw Florisil Data	NA	NA	✓	

8. Aroclor Data

a. QC Summary

Surrogate Recovery Summary (Form II ARO-1 and ARO-2)	9	10	✓	✓
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)	11	12	✓	✓
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)	13	14	✓	✓
Method Blank Summary (Form IV ARO)	15	16	✓	✓

b. Sample Data

TCL Results - Organics Analysis Data Sheet (Form I ARO)	NA	NA	✓	✓
Chromatograms (Primary Column)	NA	NA	✓	✓
Chromatograms from second GC column confirmation	NA	NA	✓	✓
GC Integration report of data system printout	NA	NA	✓	✓
Manual work sheets	NA	NA	✓	✓
For Aroclors by GC/MS	NA	NA	✓	NA

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B16	SDG NOS TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)

NA

c. Standards Data

83	163		
		✓	✓
Aroclors Initial Calibration (Form VI ARO-1, ARO-2, and ARO-3)			✓
Calibration Verification Summary (Form VII ARO-1)			✓
Analytical Sequence (Form VIII ARO)			✓
Identification Summary for Multicomponent Analytes (Form X ARO)			✓
Chromatograms and data system printouts			✓
A printout of Retention Times and corresponding peak areas or peak heights			✓

d. Raw QC Data

164	185		
Blank Data		✓	✓
Matrix Spike/Matrix Spike Duplicate Data		✓	✓
Laboratory Control Sample (LCS) Data		✓	✓

e. Raw GPC Data (if performed)

NA	NA		
		✓	NA

9. Miscellaneous Data

Original preparation and analysis forms or copies of preparation and analysis logbook pages	204	270	✓	✓
Internal sample and sample extract transfer chain-of-custody records	279	280	✓	✓
Screening records	NA	NA	✓	NA
All instrument output, including strip charts from screening activities (describe or list)				

10. EPA Shipping/Receiving Documents

Airbills (No. of shipments <u>2</u>)	271	272	✓	✓
Chain of Custody Records	273	274	✓	✓
Sample Tags	283	288	✓	✓
Sample Log-in Sheet (Lab & DC-1)	275	278	✓	✓
Miscellaneous Shipping/Receiving Records (describe or list)				

Evidence Audit Photocopy

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2

CASE NO : 43395	SDG NO : A4B16	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

11. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)

Sample Transfer	279	280	✓	✓
-----------------	-----	-----	---	---

12. Other Records (describe or list)

Telephone Communication Log	NA	NA	✓	N/A
PE Instructions	281	282	✓	✓

13. Comments

Completed by:
(CLP Lab)

Zh. Rohan
(Signature)

Zhaleh Rohani 05/07/2013
(Printed Name/Title) (Date)

Verified by:
(CLP Lab)

H. Prajapati
(Signature)

Himanshu Prajapati 05/07/13
(Printed Name/Title) (Date)

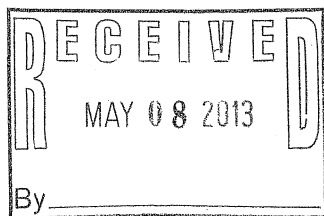
Audited by:

(USEPA)
Weston

J. Burton
(Signature)

John Burton / Technical Manager 5/14/13
(Printed Name/Title) (Date)

Evidence Audit Photocopy



COPY

EPA NEW ENGLAND
COMPLETE SDG FILE
RECEIPT / TRANSFER FORM

Site: Jard Company

TID: 12-10-0008

Task: 0850

Case : 43395

SDG : A4B16

Receipt Date	Received By : Name	Init.	Affiliation	CSF Activity	Custody Seals Present / Intact	Released To	Date
05/08/13	Doris Guzman	DG	ESAT	Received for Transfer	(Y) N (Y) N	WESTON	05/08/13
5/8/13	Bill Mahany	Bm	Weston	Storage Validation	(Y) N (Y) N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		

EPA-NE - DQO SUMMARY FORM

A separate Form should be completed for each sampling event. Refer to Attachment A for instructions on completing this form, Attachment B for a complete list of the parameter codes and Attachment C for an example of a completed form.

1. EPA Program: TSCA <u>CERCLA</u> RCRA DW NPDES CAA Other: _____ Projected Date(s) of Sampling <u>Spring (April/May) 2013</u> EPA Site Manager <u>Martha Bosworth</u> EPA Case Team Members _____ _____ _____	Site Name <u>Jard Company Inc</u> Site Location <u>Bennington, Vermont</u> Assigned Site Latitude/Longitude <u>42° 53' 21.5" north/73° 11' 21.9" west</u> CERCLA Site/Spill Identifier No <u>VTD048141741</u> (Include Operable Unit) Phase: ERA <u>SA/SI</u> pre-RI RI (phase I, etc.) FS RD RA post-RA (circle one) Other: <u>Site Reassessment</u>								
2. QAPP Title and Revision Date <u>Site Assessment Program Site Specific Quality Assurance Project Plan for Surface and Subsurface Soil/Source, Ground Water, and Sediment Sampling Jard Company Inc, Bennington, Vermont dated 11 January 2013</u> Approved by: <u>Martha Bosworth</u> Date of Approval: <u>TBD</u> Title of Approving Official: <u>Site Assessment Manager</u> Organization*: <u>EPA</u> *If other than EPA, record date approval authority was delegated: _____ EPA Oversight Project (circle one) <u>Y</u> <u>N</u> Type of EPA Oversight (circle one) PRP or FF Other: _____ Confirmatory Analysis for Field Screening <u>Y</u> <u>N</u> If EPA Oversight or Confirmatory: % splits <u>TBD</u> Are comparability criteria documented? <u>Y</u> <u>N</u>									
3. a.	Matrix Code ¹	SO	SO	SO	GW	GW	SD	SD	SD
b.	Parameter Code ²	PCB Aroclors	PCB Aroclors	PCB Congeners	PCB Aroclors	PCB Congeners	PCB Aroclors	PCB Aroclors	PCB Congeners
c.	Preservation Code ³	5	5	5	5	5	5	5	5
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	DAS or CLP	DAS or CLP	DAS or CLP	DAS or CLP	CLP
e.	No. of Sample Locations	65	28	2	21	2	60	60	60
f.	Field QC: Field Duplicate Pairs	4	2		2	5	5	5	5
g.	Equipment Blanks	See RB	See RB	See RB	See RB	See RB	See RB	See RB	See RB
h.	VOA Trip Blanks	0	0	0	0	0	0	0	0
i.	Cooler Temperature Blanks	1 per cooler	1 per cooler	1 per cooler	1 per cooler	1 per cooler	1 per cooler	1 per cooler	1 per cooler
j.	Bottle Blanks	0	0	0	0	0	0	0	0
k.	Other: _____ _____								
l.	PES sent to Laboratory	NA	6	TBD	3	TBD	NA	3	TBD
m.	Laboratory QC: Reagent Blank	0	0	0	0	0	0	0	0
n.	Duplicate	0	0	0	0	0	0	0	0
o.	Matrix Spike	0	2	0	1	0	1	0	0
p.	Matrix Spike Duplicate	0	2	0	1	0	1	0	0
q.	Other: _____ _____								
4. Site Information Site Dimensions <u>Approximately 11.26 acres</u> List all potentially contaminated matrices <u>Surface and subsurface soil, sediment, ground water, and residential surface soil</u> Range of Depth to Groundwater <u>greater than 5 feet</u> Soil Types: <u>Surface</u> <u>Subsurface</u> Other: <u>_____</u> Sediment Types: <u>Stream</u> <u>Pond</u> <u>Estuary</u> <u>Wetland</u> Other: <u>_____</u> Expected Soil/Sediment Moisture Content: <u>High</u> <u>Low</u>									

1. EPA Program: TSCA <u>CERCLA</u> RCRA DW NPDES CAA Other: _____ Projected Date(s) of Sampling <u>Spring (April/May) 2013</u> EPA Site Manager <u>Martha Bosworth</u> EPA Case Team Members _____ _____	Site Name <u>Jard Company Inc</u> Site Location <u>Bennington, Vermont</u> Assigned Site Latitude/Longitude <u>42° 53' 21.5" north/73° 11' 21.9" west</u> CERCLA Site/Spill Identifier No <u>VTD048141741</u> (Include Operable Unit) Phase: ERA <u>SA/SI</u> pre-RI RI (phase I, etc.) FS RD RA post-RA (circle one) Other: <u>Site Reassessment</u>								
2. QAPP Title and Revision Date <u>Site Assessment Program Site Specific Quality Assurance Project Plan for Surface and Subsurface Soil/Source, Ground Water, and Sediment Sampling Jard Company Inc, Bennington, Vermont dated 11 January 2013</u> Approved by: <u>Martha Bosworth</u> Date of Approval: <u>TBD</u> Title of Approving Official: <u>Site Assessment Manager</u> Organization*: <u>EPA</u> *If other than EPA, record date approval authority was delegated: _____ EPA Oversight Project (circle one) Y <u>N</u> Type of EPA Oversight (circle one) PRP or FF Other: _____ Confirmatory Analysis for Field Screening <u>Y</u> <u>N</u> If EPA Oversight or Confirmatory: % splits <u>TBD</u> Are comparability criteria documented? Y <u>N</u>									
3. a.	Matrix Code ¹	SS	SS	SS	RB				
b.	Parameter Code ²	PCB Aroclors	PCB Aroclors	PCB Congeners	PCB Aroclors				
c.	Preservation Code ³	5	5	5	5				
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	CLP Non- RAS				
e.	No. of Sample Locations	125	38	2	21				
f.	Field QC: Field Duplicate Pairs	7	2		0				
g.	Equipment Blanks	See RB	See RB	See RB	0				
h.	VOA Trip Blanks	0	0	0	0				
i.	Cooler Temperature Blanks	1 per cooler	1 per cooler	1 per cooler	1 per cooler				
j.	Bottle Blanks	0	0	0	0				
k.	Other: _____								
l.	PES sent to Laboratory	NA	6	TBD	0				
m.	Laboratory QC: Reagent Blank	0	0	0	0				
n.	Duplicate	0	0	0	0				
o.	Matrix Spike	0	2	0	0				
p.	Matrix Spike Duplicate	0	2	0					
q.	Other: _____								
4. Site Information Site Dimensions <u>Approximately 11.26 acres</u> List all potentially contaminated matrices <u>Surface and subsurface soil, sediment, ground water, and residential surface soil</u> Range of Depth to Groundwater <u>greater than 5 feet</u> Soil Types: Surface <u>Subsurface</u> Other: _____ Sediment Types: Stream Pond Estuary Wetland Other: _____ Expected Soil/Sediment Moisture Content: <u>High</u> Low									

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ SO

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Action Remediation Alternatives
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect surface and subsurface soil/source samples from the identified source area (capped former building footprint and excavated staged material) on the property for PCB Aroclors field screening and fixed based laboratory analysis in source areas on the Jard Company Inc property. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other: _____
 Split Spoon Dredge Trowel Other: Direct sampling
- Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations NA for source samples _____
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	EIA-FLDPCB2.SOP		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
PCB Congeners	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ GW

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination Removal Actions
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Remediation Alternatives
 Engineering Design Remedial Action
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect ground water samples from ground water monitoring wells previously installed on and off the property for PCB Aroclors fixed based laboratory analysis. A subset of samples will be submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	1.0 µg/L
PCB Congeners	Above Background (Assumed to be ND)	100 to 1,000 pg/L

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
Positive Displacement Pump Faucet or Spigot Other: _____
Split Spoon Dredge Trowel Other: _____

Sampling Procedures (SOP name, No., Rev. #, and date) _____

List Background Sample Locations Ground Water monitoring wells TBD

Circle: Grab or Composite _____

"Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
PCB Congeners	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria:
 Validation Tier (circle one) I II III Partial Tier III:
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ SD

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Action Remediation Alternatives
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect sediment samples from a wetland located west of Park Street for PCB Aroclors field screening and fixed based laboratory analysis. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other: _____
 Split Spoon Dredge Trowel Other: Direct sampling
- Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations Wetland area northeast of the Jard Company Inc property
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	SOM01.2		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
Total Metals (including Hg)	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ SS

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Action
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect surface soil samples from residential properties downgradient of the Jard Company Inc property and within 200 feet of the residences for PCB Aroclors field screening and fixed based laboratory analysis in source areas on the Jard Company Inc property. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other: _____
 Split Spoon Dredge Trowel Other: Direct sampling
 Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations Residential properties located north of the Jard Company Inc property
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	SOM01.2		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
Total Metals (including Hg)	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

Matrix Codes¹ - Refer to Attachment B, Part I
 Parameter Codes² - Refer to Attachment B, Part II

Preservation Codes³

- | | |
|-----------------------------------|--|
| 1. HCl to pH ≤ 2 | 7. K ₂ Cr ₂ O ₇ |
| 2. HNO ₃ | 8. Freeze |
| 3. NaHSO ₄ | 9. Room Temperature (avoid excessive heat) |
| 4. H ₂ SO ₄ | 10. Other (Specify) |
| 5. Cool @ 4°C (± 2) | N. Not preserved |
| 6. NaOH | |

* - To supplement Matrix Codes and/or Parameter Codes contact the QA Unit